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"Buffalo"

TYPE "BL"

Limit-Load FANS

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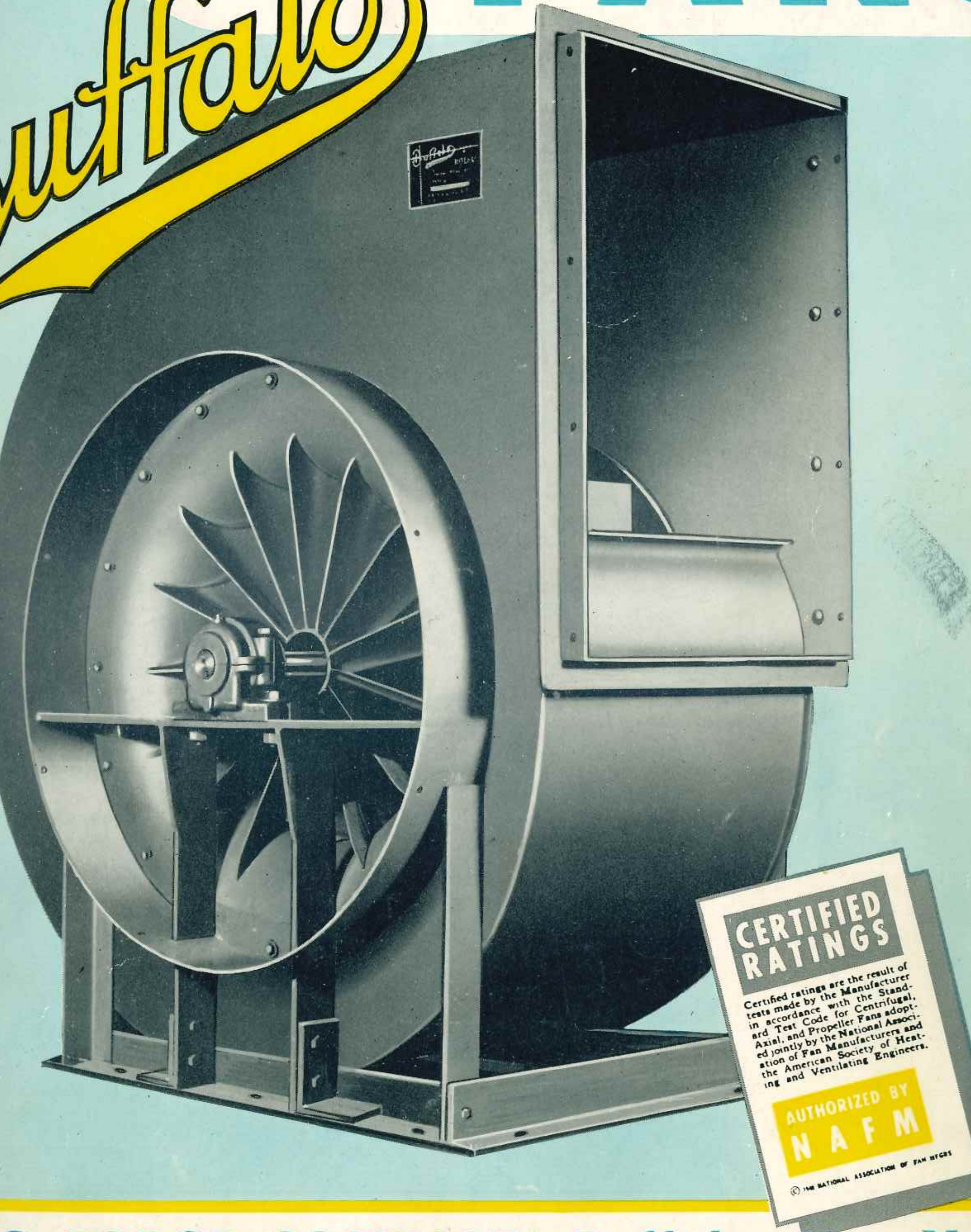

CERTIFIED RATINGS

Certified ratings are the result of tests made by the Manufacturer in accordance with the Standard Test Code for Centrifugal, Axial, and Propeller Fans adopted jointly by the National Association of Fan Manufacturers and the American Society of Heating and Ventilating Engineers.

AUTHORIZED BY NAFM

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BUFFALO FORGE COMPANY, Buffalo, New York
CANADIAN BLOWER and FORGE CO., LTD., Kitchener, Ont.

Bulletin F-100

"Buffalo"

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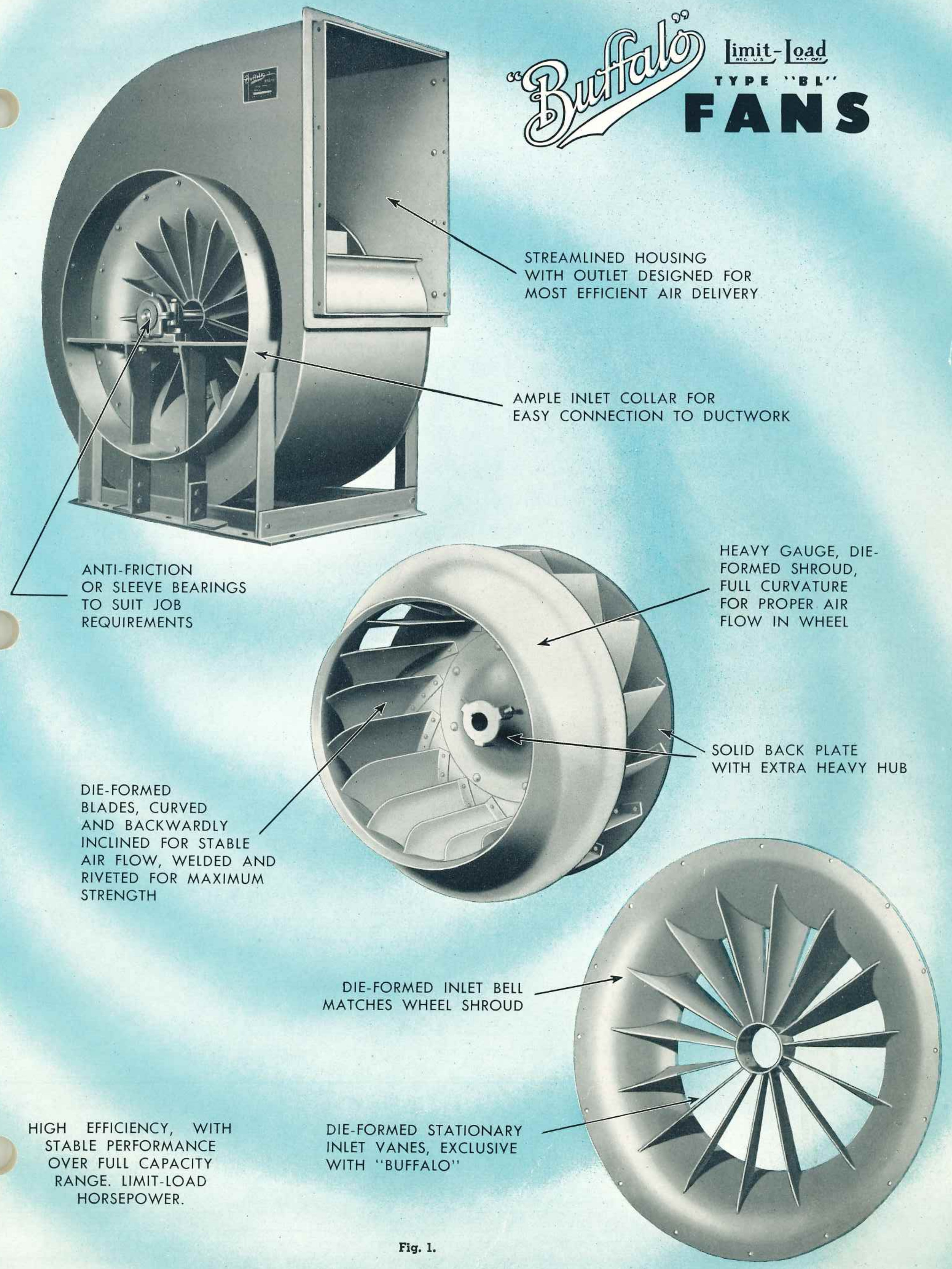
*National Association of Fan Manufacturers

"Buffalo" Limit-Load TYPE "BL" FANS



STREAMLINED HOUSING WITH OUTLET DESIGNED FOR MOST EFFICIENT AIR DELIVERY

AMPLE INLET COLLAR FOR EASY CONNECTION TO DUCTWORK

ANTI-FRICTION OR SLEEVE BEARINGS TO SUIT JOB REQUIREMENTS

HEAVY GAUGE, DIE-FORMED SHROUD, FULL CURVATURE FOR PROPER AIR FLOW IN WHEEL

SOLID BACK PLATE WITH EXTRA HEAVY HUB

DIE-FORMED BLADES, CURVED AND BACKWARDLY INCLINED FOR STABLE AIR FLOW, WELDED AND RIVETED FOR MAXIMUM STRENGTH

DIE-FORMED INLET BELL MATCHES WHEEL SHROUD

HIGH EFFICIENCY, WITH STABLE PERFORMANCE OVER FULL CAPACITY RANGE. LIMIT-LOAD HORSEPOWER.

DIE-FORMED STATIONARY INLET VANES, EXCLUSIVE WITH "BUFFALO"

Fig. 1.

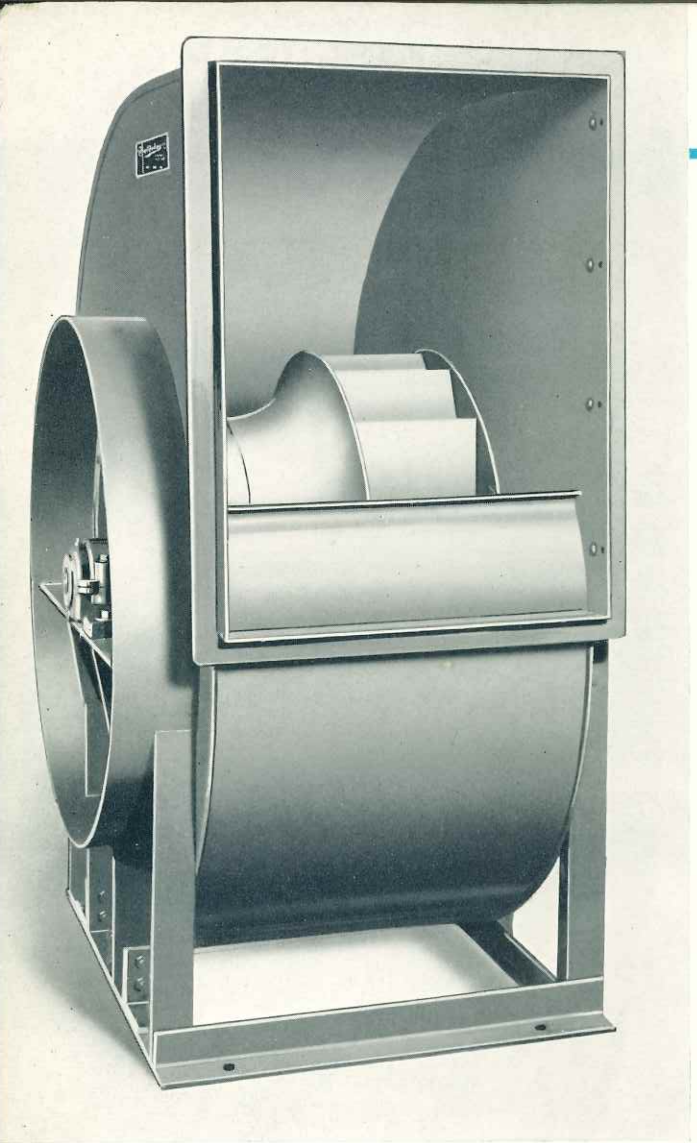


Fig. 2 — "Buffalo" Single Inlet Type "BL" Fan Arrangement 3, Top Horizontal Discharge.

Performance of the "Buffalo" Type "BL" Fan

THE Type "BL" fan with rotor and streamlined inlet bell are shown on the preceding page. These three parts, housing, rotor, and inlet, are responsible for fan performance. Extremely high static efficiencies and minimum noise levels are the results of improvements on all three components.

"Buffalo" engineers retained such well-known features as fixed inlet guide vanes and backwardly curved blade rotor for limit load horsepower characteristic. The fan inlet is die-formed to a smooth curvature, with curved guide vanes welded in place and at a specified angle. Flow into the wheel is thus properly distributed and directed, reducing the inlet shock loss often due to unfavorable inlet connections. The fan rotor now includes a deep die-formed shroud of the same curvature as the inlet, with backward curved blades welded to the shroud and riveted to the solid backplate.

The fan housing is properly designed for most efficient flow and optimum distribution at the outlet.

"Buffalo" engineers specified modern shop practices such as die-forming and welding to insure a production fan identical with the design fan.

The actual performance test curve used for the table ratings of single inlet fans sizes 730 to 1085 is pictured below. This performance test was made strictly in accordance with the code adopted jointly by the American Society of Heating & Ventilating Engineers and the National Association of Fan Manufacturers. The fan static pressure versus capacity curve is stable from shut-off to free delivery with no breaks at any point. Fan static efficiency is very high over a wide range, which is most desirable for medium pressure applications. Low noise levels over the same wide range make the "BL" fan an outstanding choice for ventilation and air conditioning duty.

"Buffalo" Type "BL" fan design varies the number of fixed guide vanes in the inlet and blades in the rotor depending on fan size. This varies from no guide vanes and eight blades in the four smallest sizes to twenty-three guide vanes and twenty-four blades in the largest sizes. "Buffalo" engineers found by actual test that size of fan affected performance so a number of actual fan tests were made of various fan sizes, both single and double inlet. These test curves are the basis for the table ratings in this bulletin.

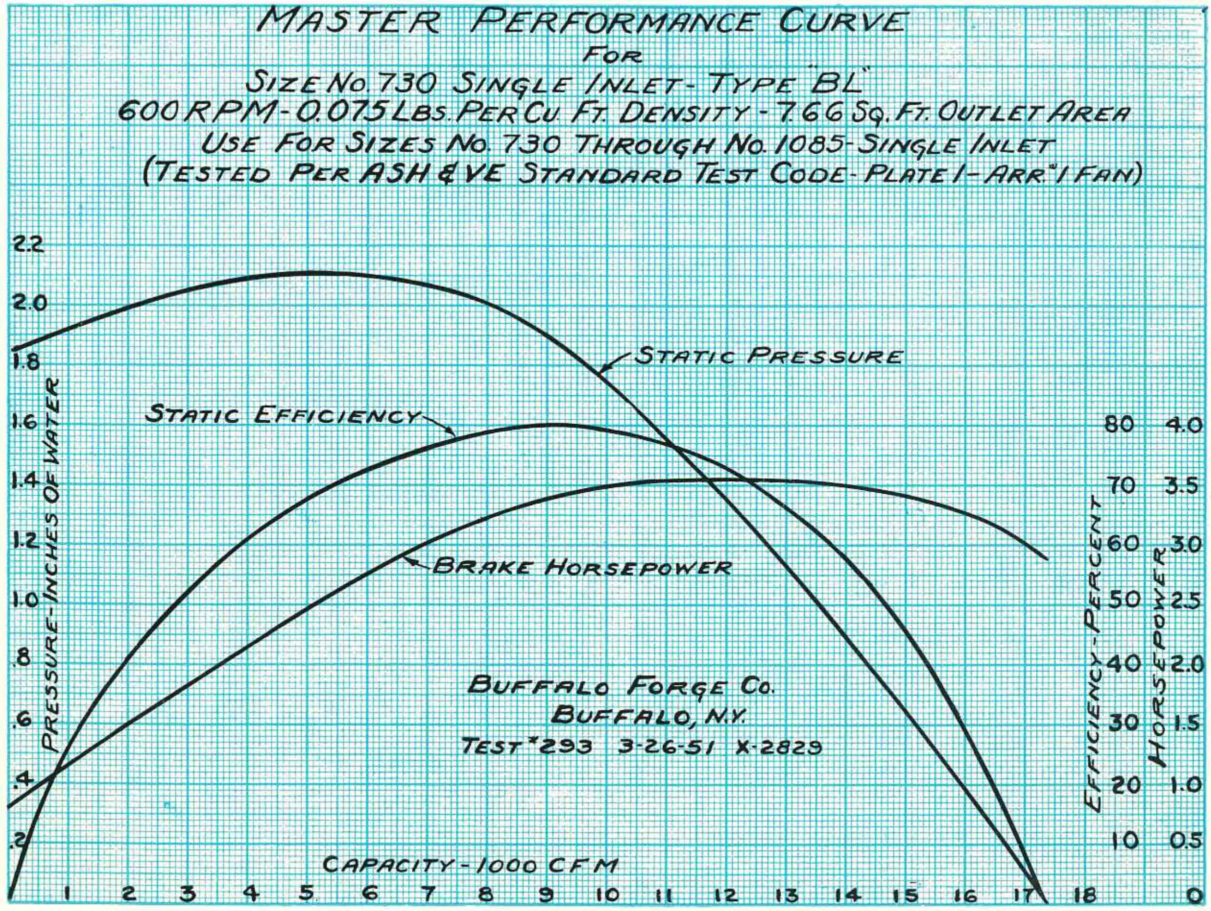


Fig. 3 — Actual Performance Curve — Note High Efficiency over Wide Range of Capacity

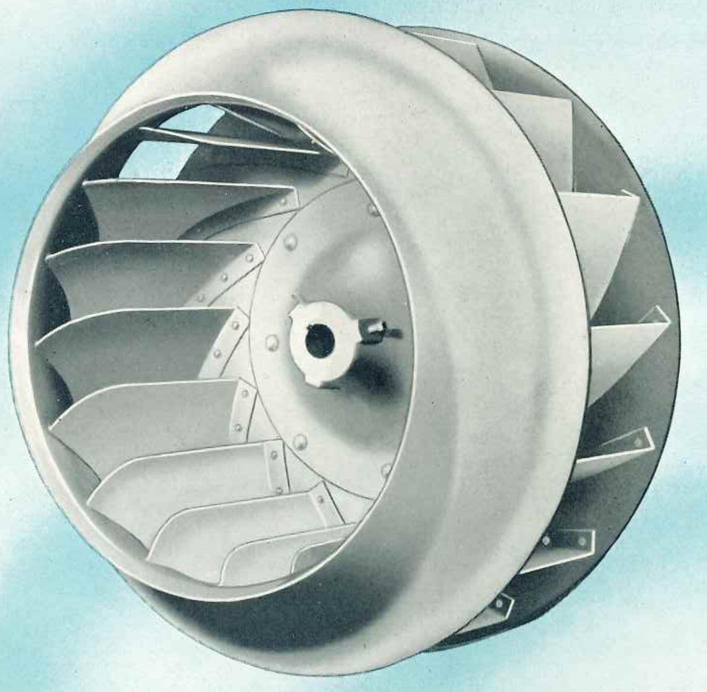


Fig. 4 — Class I Rotor.

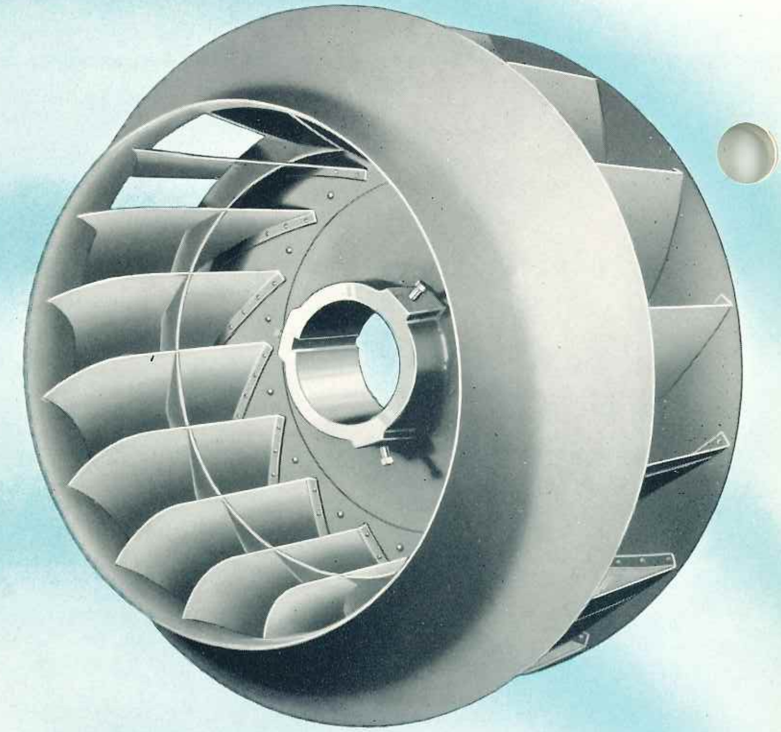


Fig. 5 — Class II Rotor.

Rotors - Classes I and II

A RESULT of several years of intensive research on blade and shroud shapes, combined with extensive fan building experience, the new "Buffalo" Type "BL" fan has a truly streamlined rotor. Incorporating such features as non-overloading power characteristics, smooth air-flow design, high efficiency operation, geometrically strong shroud, and attractive appearance, this rotor, when tested to destruction, demonstrates amazing strength.

The large smooth-curved shroud and the precision formed backwardly curved blades literally sweep and guide the air into the wheel, "filling" the wheel to its fullest extent and giving low loss, high efficiency operation.

The heavy curved shroud is die-formed from special deep-drawing steel and heat treated to eliminate internal stresses. The backward curved blades are die-formed from a high grade steel and are precision fitted and welded to the shroud by the use of jigs and fixtures. Tolerances are kept to a minimum.

Standard practice is to rivet the blades to the backplate, but all welded wheels can be furnished. The heavy driving hub is riveted to the backplate.

Class II rotors are further strengthened by a heavy, intermediate heel ring that is welded to the blades between the backplate and shroud, slanted to give maximum strength with least air resistance.

The heavy duty construction of the "Buffalo" Type "BL" rotor, plus careful dynamic balancing, assures a smooth running fan. (When Type "BL" rotors are specially coated with protective materials, they are rebalanced dynamically before shipment).

Bearings

ANTI-FRICTION bearings are standard equipment on all Type "BL" fans. In general, arrangements 1, 8 and 9 are equipped with ball bearings. Spherical roller bearings are used on arrangements 3 and 7.

Ball bearings are of the single deep groove or double row, self-aligning, grease lubricated type, both of heavy duty pillow-block construction. Self-aligning high load capacity spherical roller bearings are double row, grease lubricated, pillow-block type. Labyrinth seals prevent intrusion of abrasive and corrosive matter and prevent leakage of bearing lubricant.

"Buffalo" sleeve bearings are optional. These bearings are self-aligning and ring-oiling with oil retaining rings and internal thrust collars. Split babbitted bearing liners are precision made to minimum tolerances and inexpensive to replace. An extra large oil reservoir is provided with accessible drain plug. A combination oil cup and gauge properly indicates oil level. This bearing is specially designed and manufactured to be oil-tight and dustproof.

"Buffalo" arrangement 2 bearings consist of a rugged cast iron bearing bracket containing two single row deep groove ball bearings. Seals which guard against entry of dirt and loss of grease are an integral part of the bearing assembly. When sleeve bearings are specified we provide a similar bracket construction containing two bronze sleeve bearings with a large oil reservoir, oil rings and thrust collars. A cast iron cover plate furnishes convenient access for oiling.

"Buffalo's" conservative selection of heavy duty bearings assures long, trouble-free operation. All bearings are selected for use with V-belt drives or direct connection at maximum wheel tip speed.

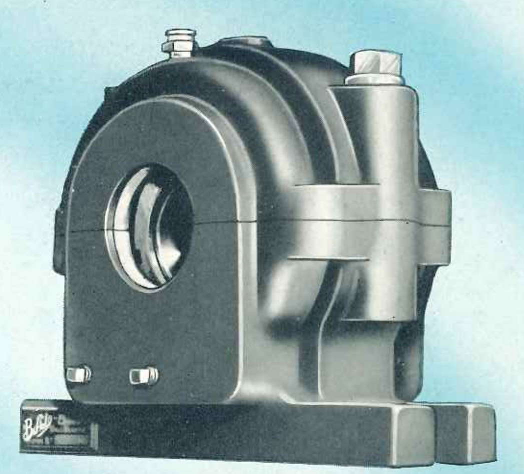


Fig. 6 — Ball Bearing.

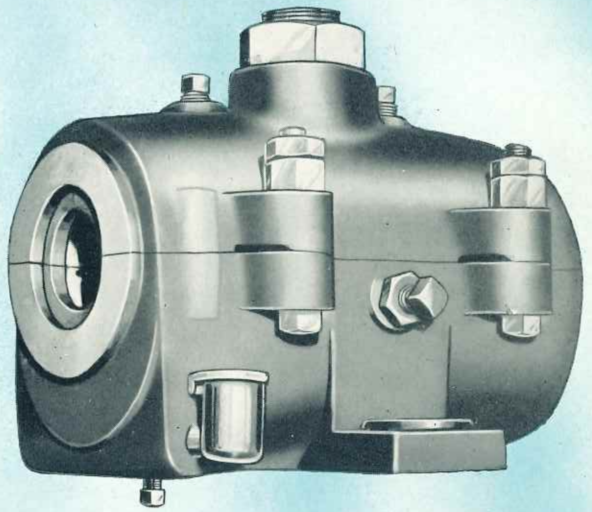


Fig. 7 — "Buffalo" Self Aligning Sleeve Bearing.

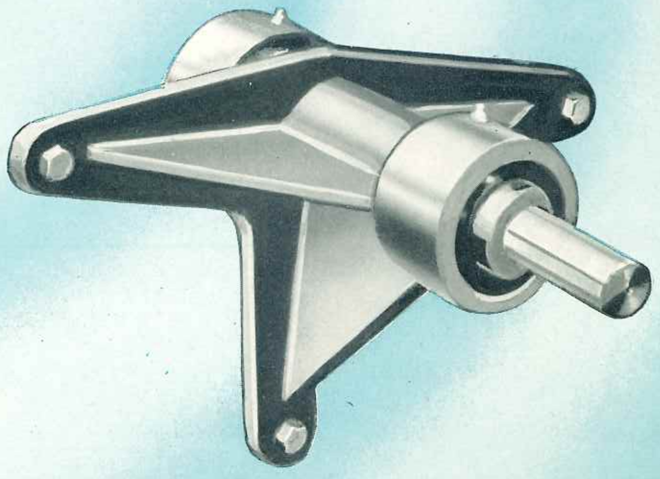


Fig. 8 — "Buffalo" Arrangement 2 Bracket Bearing.

Type "BL"
Single Inlet Fans -

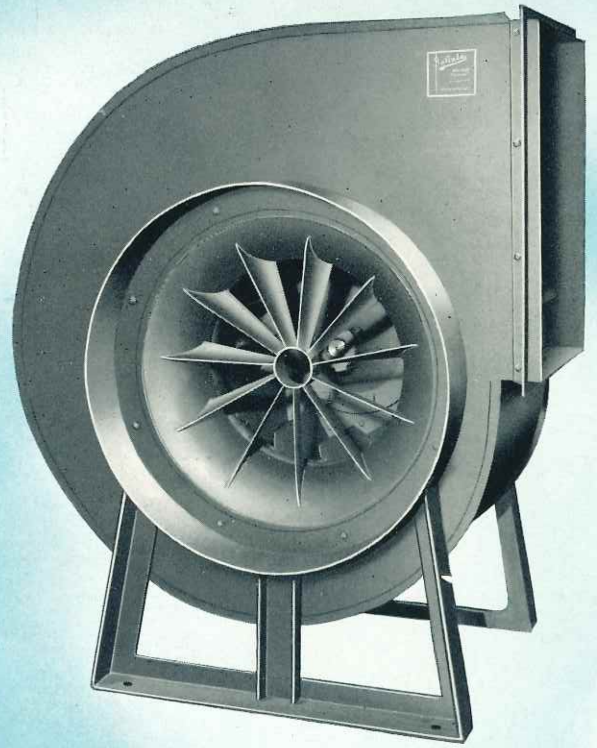


Fig. 9.

Inlet side of a "Buffalo" single inlet fan, typical of adjustable sizes No. 245 through No. 540. The inlet collar extends far enough out from the bracing to make inlet duct connections. Eight bolts on inlet and drive side, easily removed, permit adjustment of discharge in the field. These fans are not reversible since impeller and inlet guide vanes are made for one rotation, either clockwise or counterclockwise.

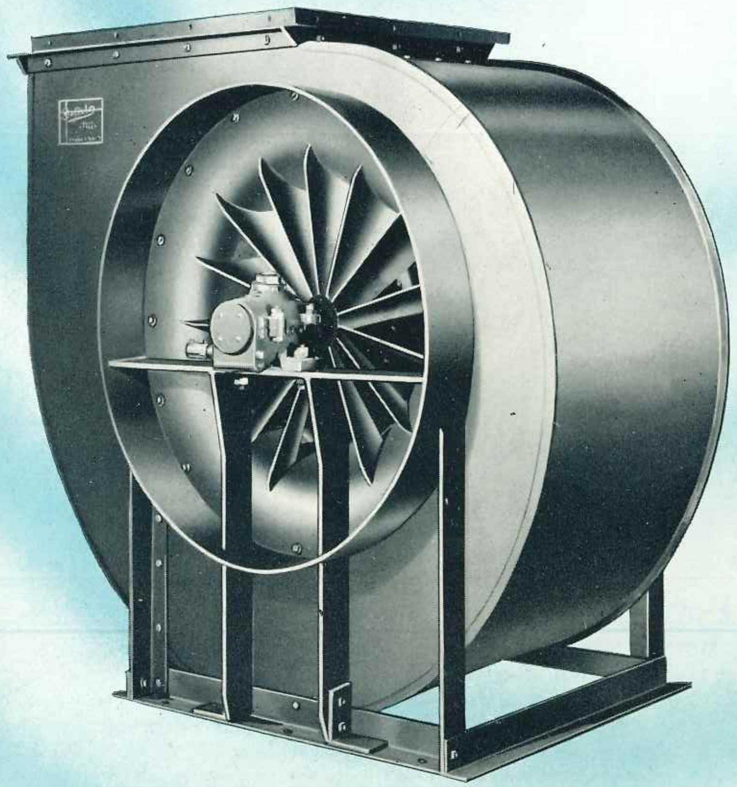


Fig. 10.

Side view of a single inlet fan, arrangement 3, with "Buffalo" sleeve bearings, showing standard inlet collar. The rolled scroll construction shown here is used on single and double inlet fans up to and including No. 1090. Bolted-on bracing, extending to floor, permits removal of impeller through fan side if required.

Type "BL"
Double Inlet Fans

The Type "BL" double inlet fans, sizes No. 365 through No. 540, are built as illustrated. These sizes are adjustable as to discharge and reversible as to rotation (shaft can be extended through either bearing). "Buffalo" construction features two single rotors back to back, which permits accurate adjustment in relation to inlet bells. Rotors are assembled on fan shaft with blades staggered, resulting in lower noise level in discharge duct. Inlet screens are furnished when required as an extra.

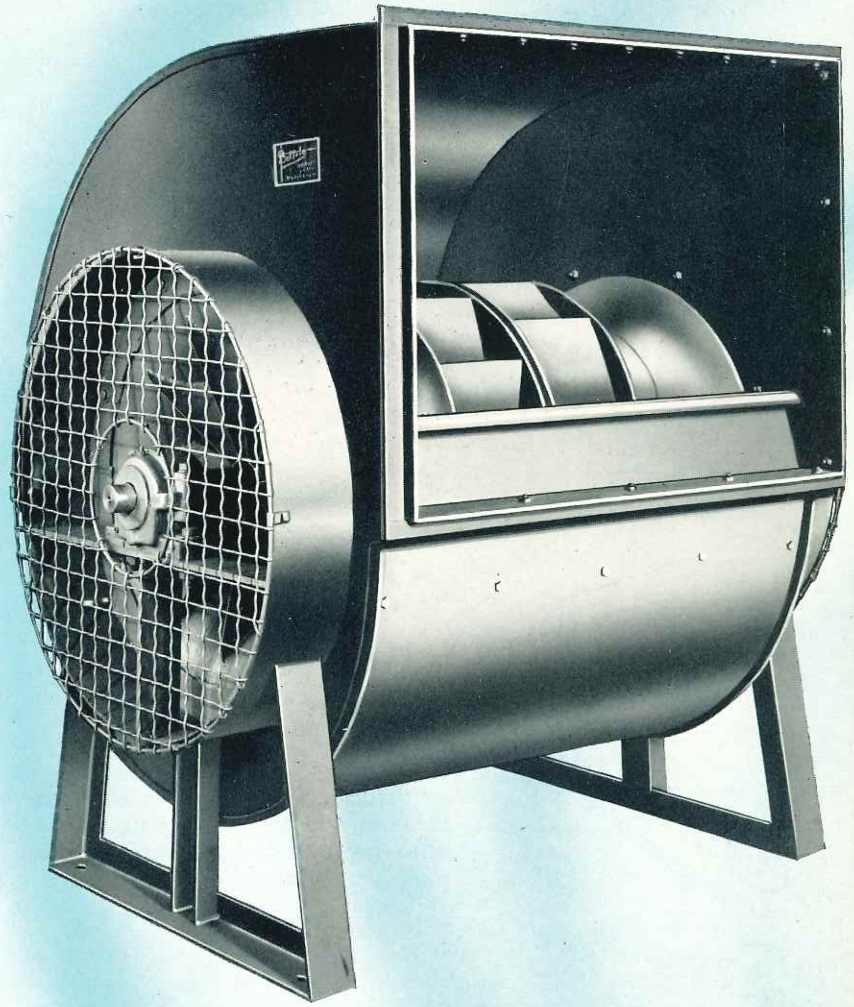


Fig. 11

Typical construction of larger double inlet fans. Heavy structural bracing extending to floor is bolted on fan sides for removal of shaft and rotors through either inlet. Double inlet fans are often used in plenum chambers where air flow to fan inlets is not from the most favorable direction. "Buffalo" stationary guide vanes stabilize this flow at inlet and reduce shock loss into rotors.

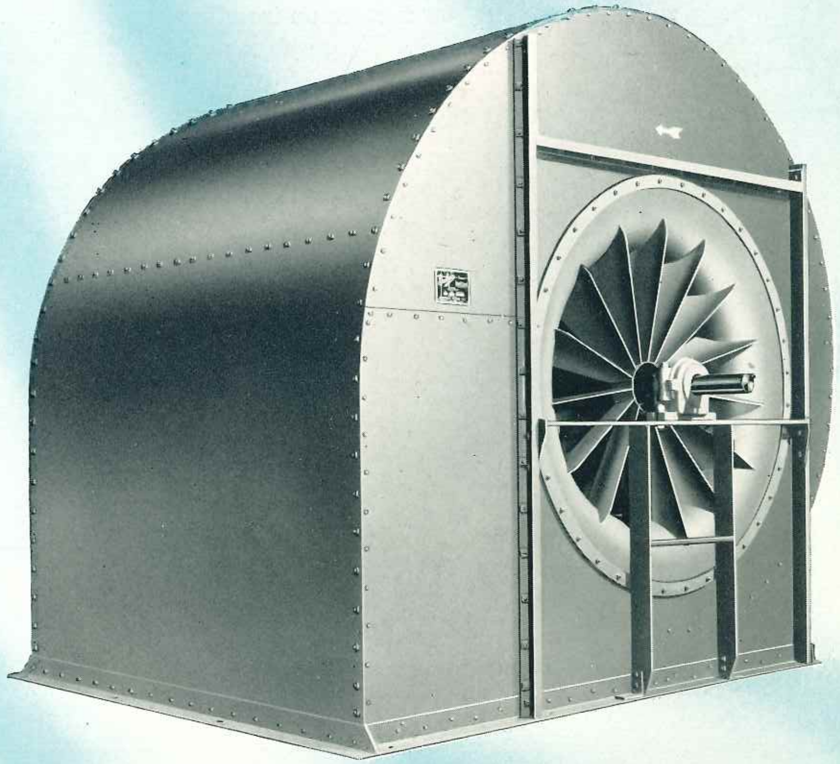


Fig. 12.

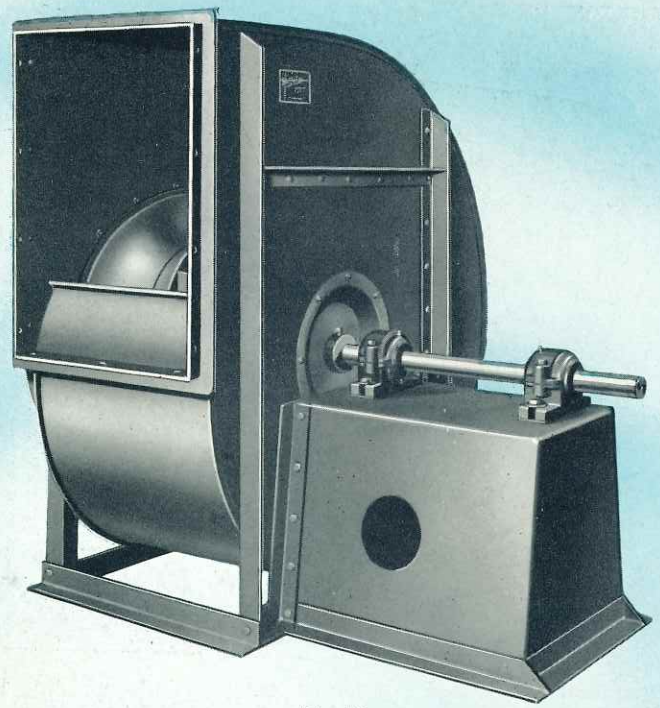


Fig. 13

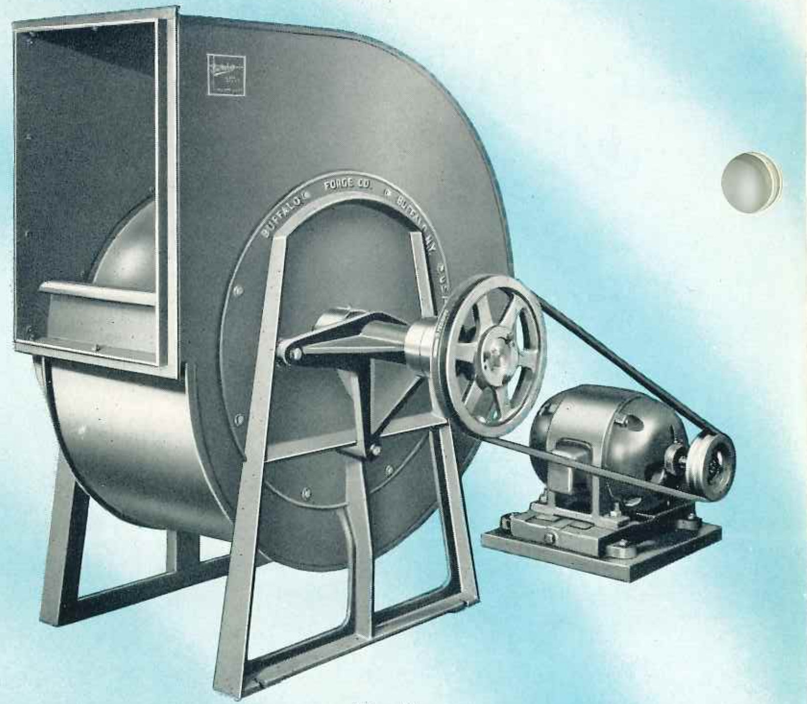


Fig. 14.

"Buffalo"

Type "BL" Fans for Belt Drive

The arrangement 1 fan in the non-adjustable sizes provides the rotor overhung on the shaft. The supporting bearings are mounted on a sheet steel base with interior structural steel supports.

A typical arrangement 3 fan, non-adjustable, with motor, slide rails and V-belt drive. Fan and motor are mounted on a common isolation base.

The arrangement 2 is built in adjustable sizes No. 245 thru No. 540. It includes a rugged cast iron bearing stand. The motor with V-belt drive is extra.

The arrangement 9 design provides a package type firm motor base adjustable for motor size and for V-belt tension.

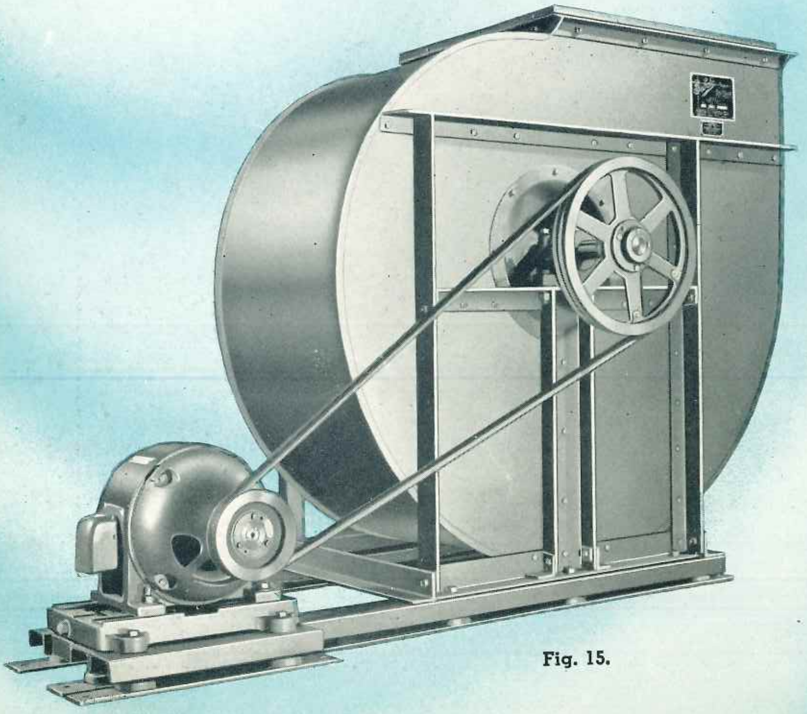


Fig. 15.

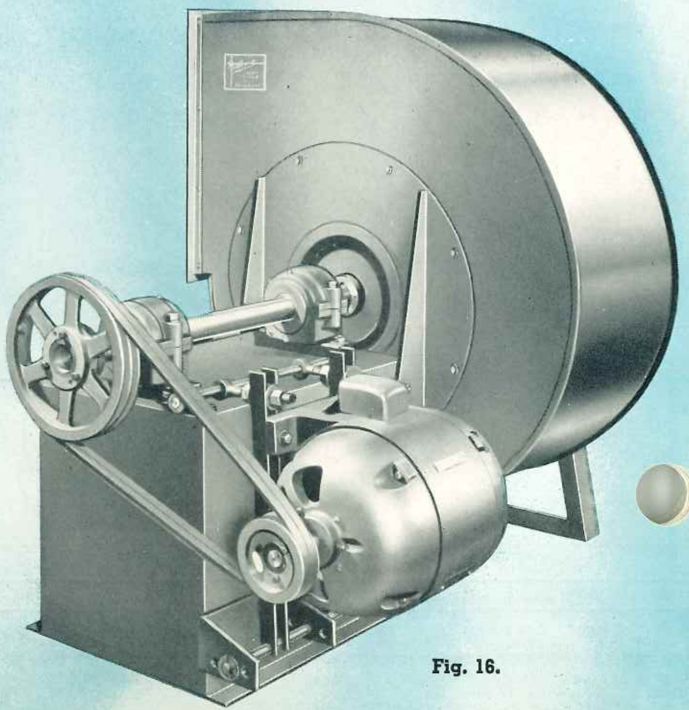


Fig. 16.

"Buffalo"

Type "BL" Fans for Direct Drive

The arrangement 4 fan provides a strong steel plate motor base integral with the fan housing. Rotor has an offset hub mounted on motor shaft. Arrangement 4 is furnished on all adjustable fans and on a limited number of larger non-adjustable sizes. (Right)

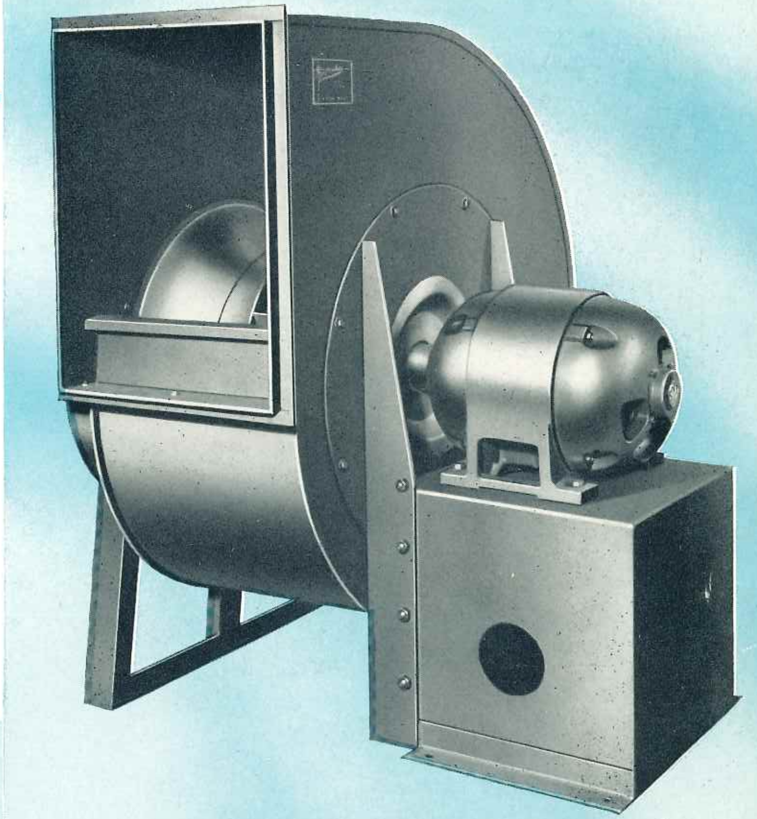


Fig. 17.

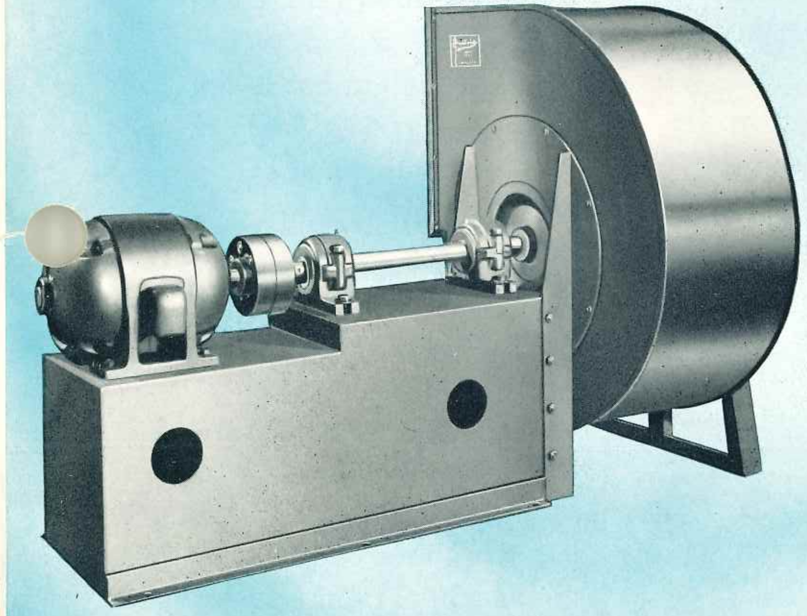


Fig. 18.

The arrangement 8 fan provides a direct-connected fan with two bearings and coupling mounted on sheet steel base. This arrangement is particularly suited to fume exhaust or high temperature applications. (Left)

Arrangement 7 is desirable for direct motor drive when there is no objection to bearings in the fan inlet. This arrangement is furnished in all non-adjustable sizes, single or double inlet. (Right)

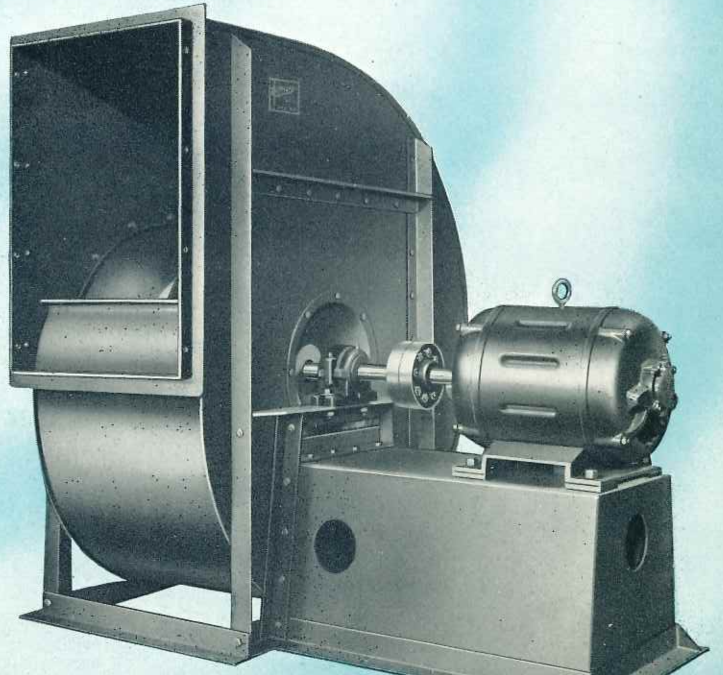
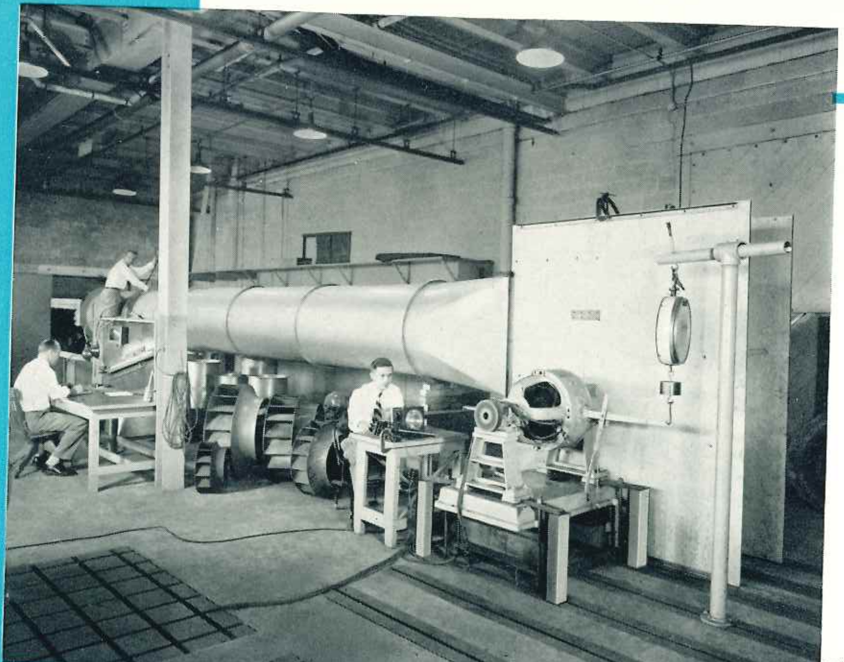
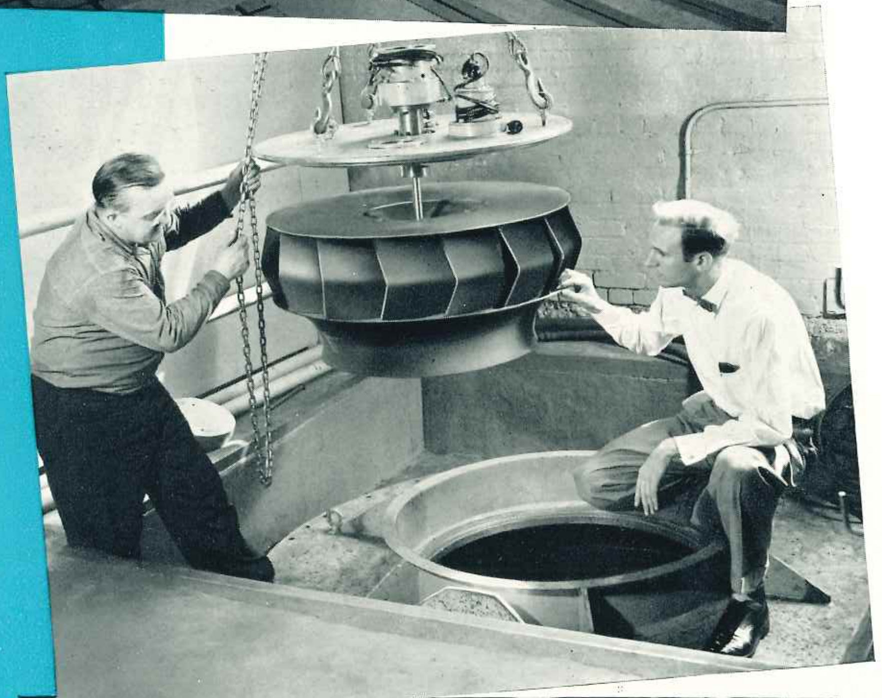
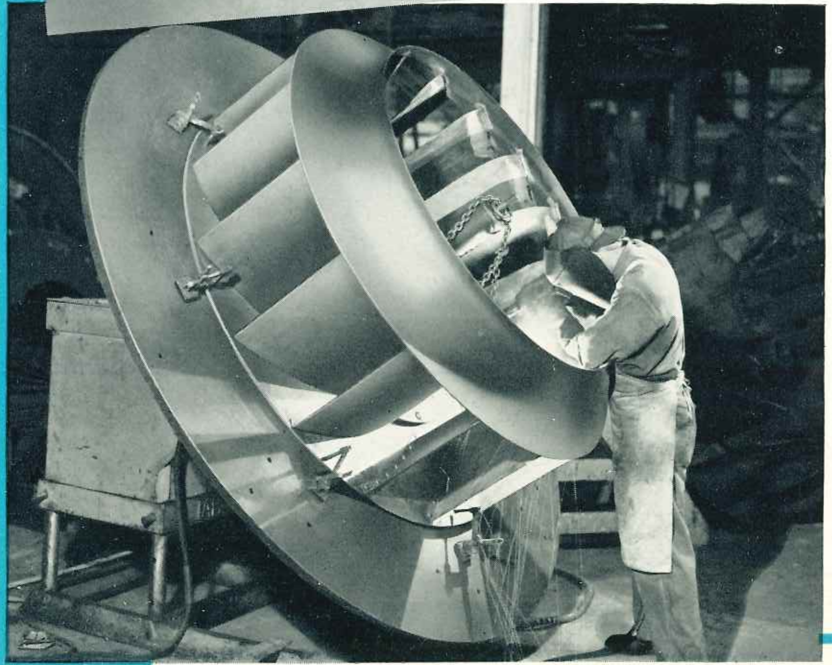


Fig. 19.







BUFFALO engineers produced the new Type "BL" only after exhaustive tests on various wheel designs and housings. The "Buffalo" test laboratory pictured here is set up in strict accordance with the test code adopted jointly by ASH&VE and NAFM.

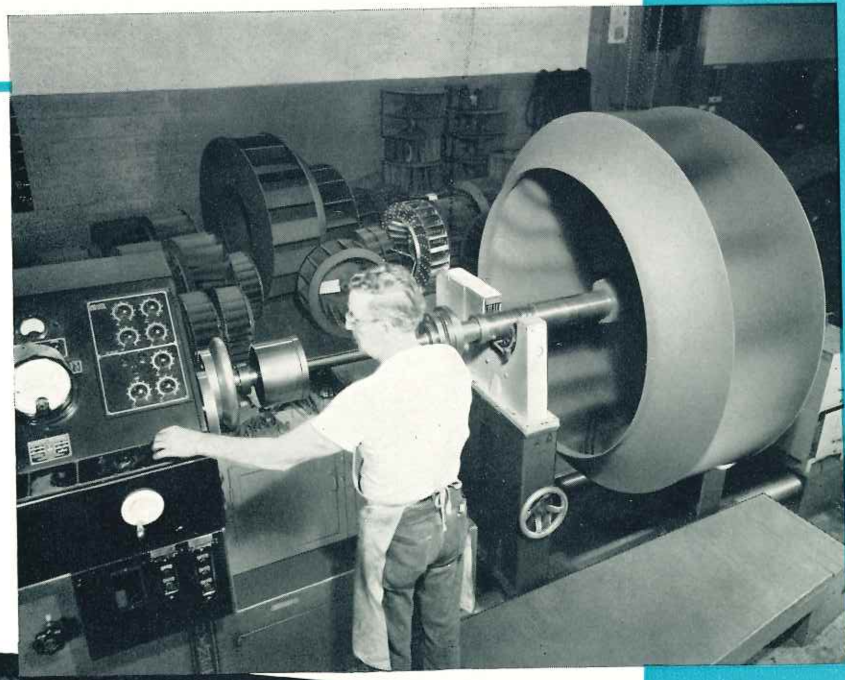
The wheel design finally adopted includes a curved shroud and backward curved blades instead of the flat blade design. The Type "BL" wheel together with fixed guide vanes in the fan inlet produces a stable air capacity curve from shut-off to free delivery. "Buffalo" fan wheels are tested for strength in a vacuum pit as shown here. Safe operating speeds are well below the speed required to cause wheel failure.

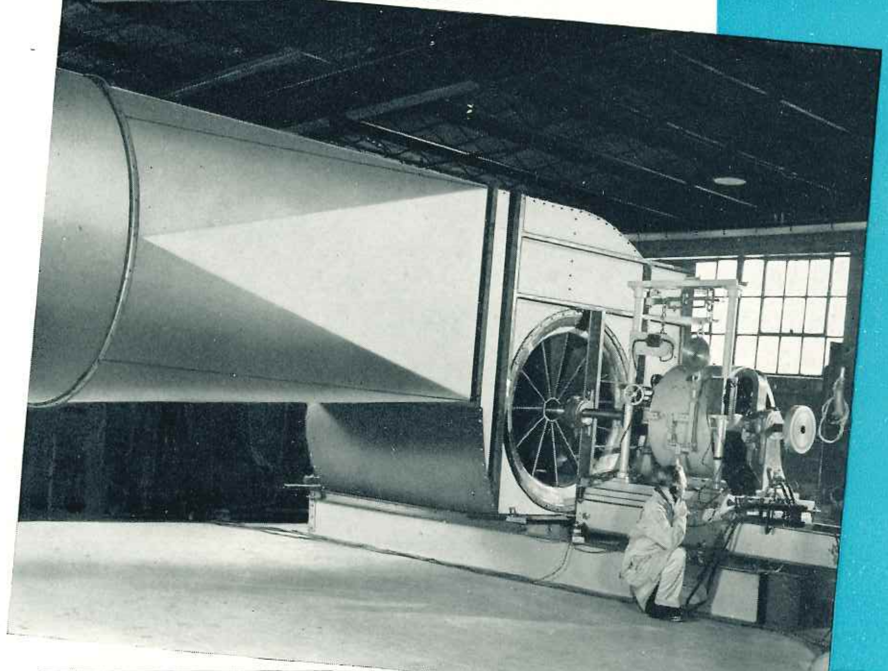
The "Buffalo" Type "BL" wheel includes a die-formed shroud and die-formed blades accurately welded by means of jigs. Blades are hot riveted to the back plate. Class I and II double inlet fans use two single wheels back-to-back on the shaft. Thus proper alignment and clearance between wheels and inlets can be easily maintained.

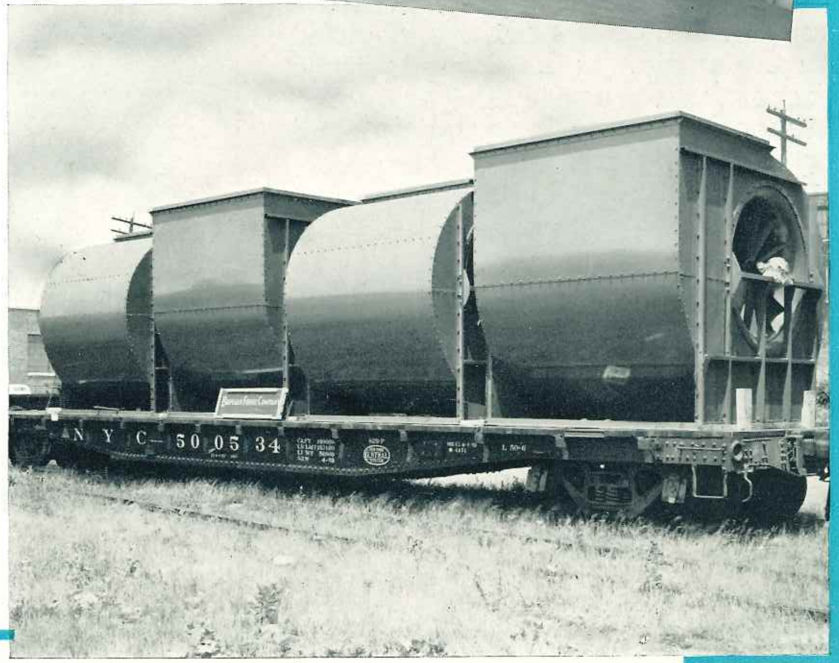
All "Buffalo" fan wheels from small propeller fans to largest centrifugal designs are given a running dynamic balance. Modern electronic balancing equipment (right) assures smooth running fans. Rubber covered wheels are rebalanced after application of covering.

Performance tests demonstrate the outstanding performance of the Type "BL" fan as shown in this picture. Tests are conducted strictly in accordance with NAFM requirements. Witness tests are made in our own laboratory since field tests are not always practical or accurate.

At right is one of many carloads of large double inlet Type "BL" fans for an important industrial application. Wherever possible, fans are shipped assembled for easy handling on the job. When required, knocked down shipments can be made, in which case bolted construction is largely used to facilitate assembly in the field.







Inlet and Outlet Dampers

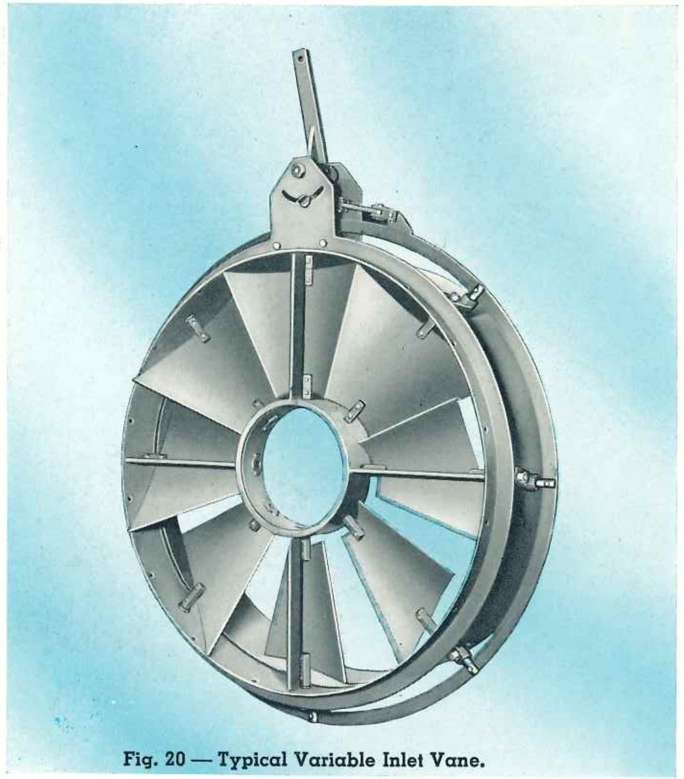


Fig. 20 — Typical Variable Inlet Vane.

BUFFALO Variable Inlet Vanes are used when accurate control of air volume is required with maximum saving in power at reduced ratings. When variable inlet vanes are used, the fixed inlet guide vanes are removed. The same stabilized flow at the fan inlet is maintained.

Type "BL" fans with variable inlet vanes are furnished in single or double construction. The operating mechanism is designed for positive action with a minimum of back lash.

The operating arm can be located at any convenient point on the circular frame. The vanes are designed for hand or automatic control as desired.

"Buffalo" outlet dampers are built in a separate frame. The damper frame is attached to the fan outlet with the leaves perpendicular to the fan shaft.

The balanced damper leaves are supported by ball-bearings mounted on the outside of the damper frame for convenient servicing. The operating mechanism is designed for hand or automatic control.

Outlet dampers are low in first cost and thus provide an economical means of reducing air volume.

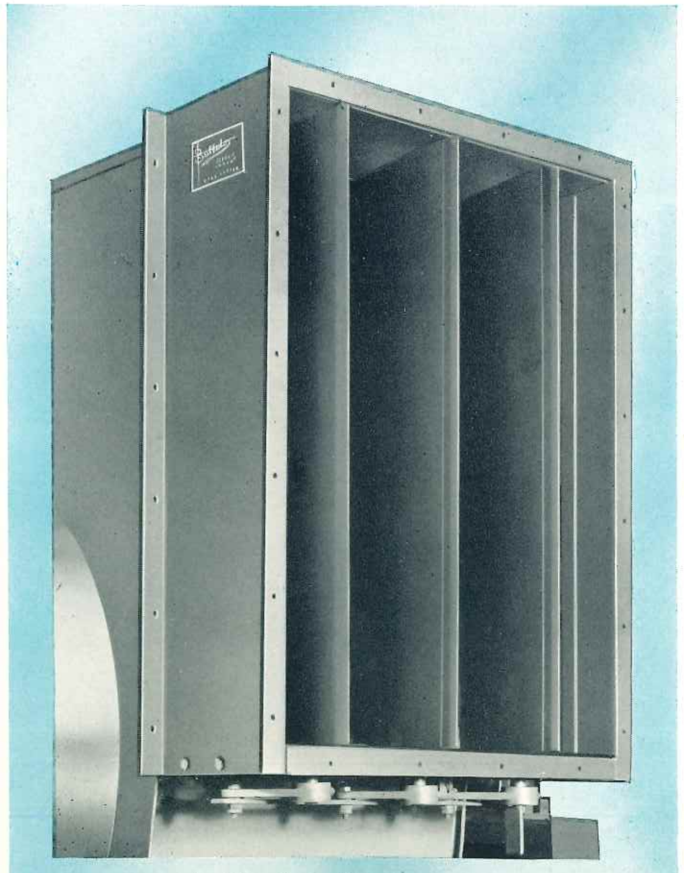


Fig. 21 — Vertical Leaf Damper.

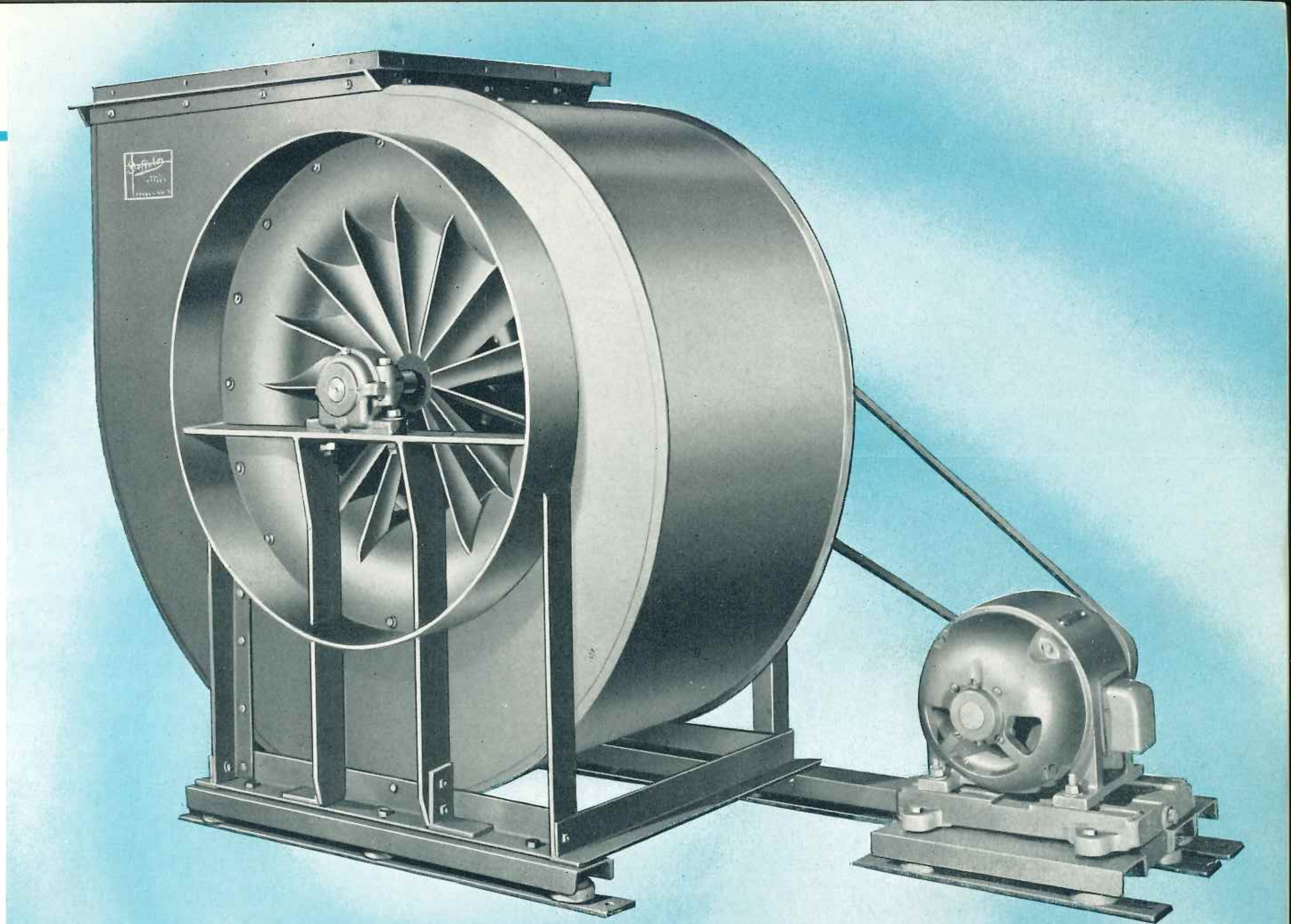


Fig. 22 — "Buffalo" Type "BL" Arrangement 3 Fan on Floating Base.

Floating Bases

FLOATING bases provide a practical, inexpensive means of isolating a fan and its driving motor from building floors and foundations.

Proper isolation is a two-fold problem. First, vibration transmissions must be effectively reduced. This is accomplished by resilient isolators that deflect uniformly under load and produce frequency ratios necessary for vibration absorption. Second, proper support must be provided so that operation of equipment will not be impaired.

"Buffalo," with a variety of bases available, is able to offer the right floating base for the job whether integral or duplex mounting of fan and motor is desired. The basic unit consists of a structural steel base on which fan and motor rails are bolted, with built-in vibration pads to isolate the base from the foundation.

Standard bases include rubber in shear isolators. For special applications cork, or steel spring vibration pads are available. Standard motor rails are recommended in most cases for belt adjustment.

Motor positions are designated according to the NAFM letter code as W, X, Y, and Z. These positions are shown in Fig. 29 on page 21 of this bulletin.

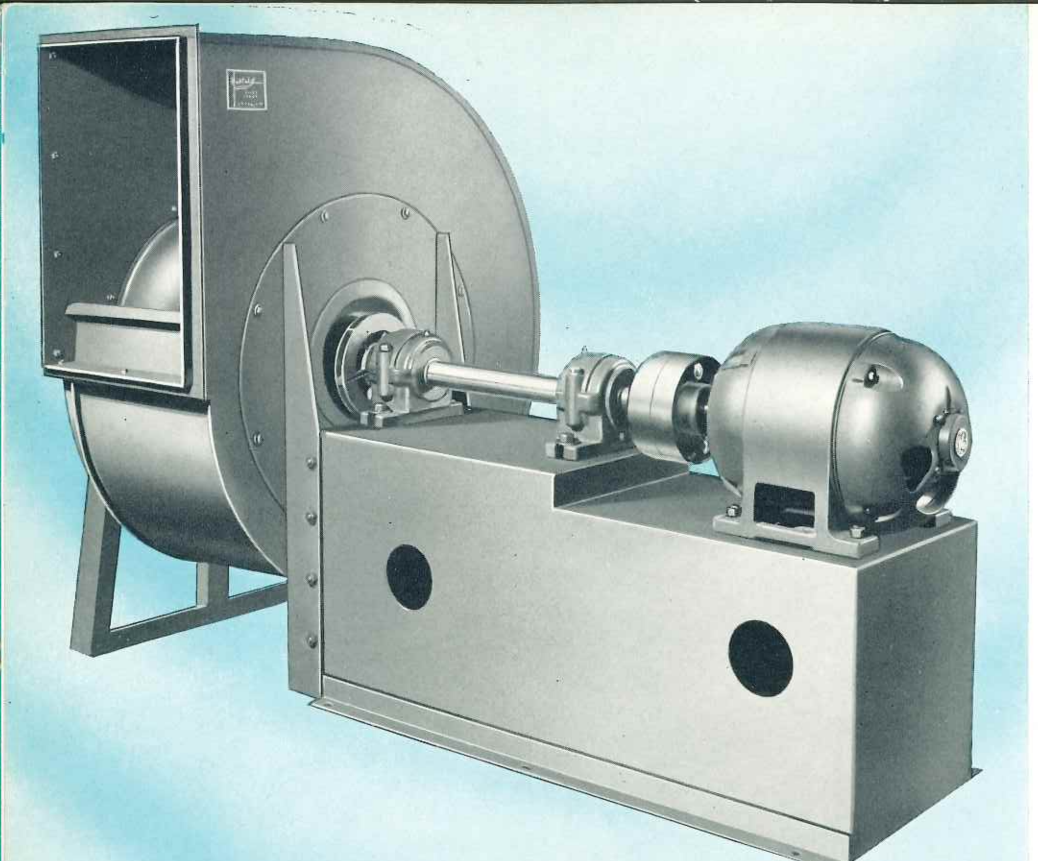


Fig. 23 — Arrangement 8 High Temperature Fan with Heat Slinger.

Type "BL" High Temperature Fans

BUFFALO Type "BL" single width exhaust fans with overhung wheel construction may be used for handling hot air and gases up to a temperature of 600°F. Ball bearings are furnished and when conditions require it, we supply a cast aluminum heat slinger attached to the rotating fan shaft.

Inspection doors are recommended for high temperature service so that the wheels are easily accessible for cleaning.

Standard Construction — "Buffalo" Type "BL" standard Arrangement 1 fans with ball bearings are suitable for temperatures up to 200°F.

Construction 350 — With the addition of high temperature oil lubricated ball bearings, the standard Arrangement 1 fans are suitable for temperatures up to 350°F.

Construction 600 — "Buffalo" Type "BL" Arrangement 1 fans equipped with high temperature ball bearings and heat slingers are suitable for temperatures up to 600°F. The shaft size is the same as standard, but the maximum speed is limited to 85 percent of tip speeds listed on page 18.

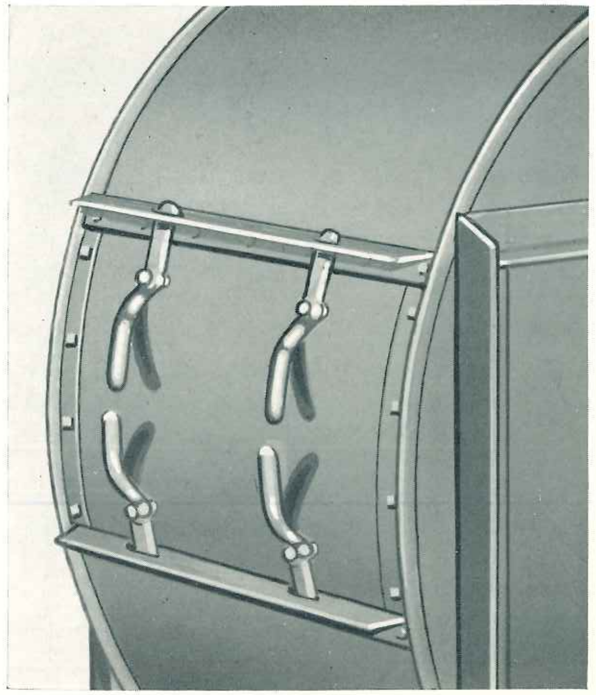


Fig. 24 — Buffalo Inspection Door with Quick Opening Clamps.

Spark Resistant Fans

BUFFALO offers special spark resistant construction for fans handling explosive mixtures. The type of construction depends on the degree of spark protection desired. Various constructions are in accordance with the Standards adopted by the NAFM and are as follows:

Type A —

All parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.

Type B —

The fan shall have an entirely non-ferrous wheel and a non-ferrous ring about the opening thru which the shaft passes.

Type C —

The fan shall be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike.

"Buffalo" Type "C" construction consists of a non-ferrous inlet cone to prevent sparking if the steel wheel shifts toward the fan inlet and a non-ferrous plate which is riveted to the standard bearing bowl with non-ferrous rivets to prevent sparking if wheel shifts toward the drive side of the housing.

Materials used for non-sparking construction are Everdur, aluminum and brass. Wheel construction is of Everdur or aluminum.

Corrosion Resistant Fans

IN CHEMICAL and allied industries, fans are frequently required to handle corrosive fumes. Depending on conditions, we will furnish special paint, plastic coatings, rubber covering or fans made from special metals.

Special paint is recommended where mild corrosive conditions exist. We recommend full welded wheel construction. A "paint-job" which will protect all sharp corners and will not scale off, can be assured by the following steps: grinding of rough edges, the complete wheel sand-blasted, and a prime coat of paint applied before shipment.

Plastic coatings are proving a satisfactory solution of corrosive problems in rayon and chemical plants as well as many other similar industrial installations. Five to seven coats are applied, baked or air dried.

Rubber-covered fans are the ideal answer in handling many industrial fumes and gases. Through experience we know "Buffalo" rubber-covered fans will last 3 to 12 times as long as standard metal fans when handling acid fumes. Every part of the fan coming into contact with the fumes is covered with rubber vulcanized directly to the metal. It is not glued or cemented, but "welded" into the pores of the metal, making a practically integral union.

"Buffalo" Type "BL" fans can be constructed of special corrosion resistant metals. Everdur bronze is particularly applicable to low temperature installations and is usually satisfactory for handling sulfuric acid fumes and other sulphates, halogen acids, various organic acids and mercury compounds. The following table may be used to give an indication of the type of material to resist various corrosive fumes. The information is not guaranteed, since heat concentration, and moisture content vary the corrosive actions of the fumes, and makes it difficult to predict the probable life of a fan handling corrosive fumes with any certainty.

SPECIAL MATERIALS FOR CORROSIVE FUME FANS

MATERIAL	ACID FUMES					
	Acetic	Chromic	Hydrochlor.	Nitric	Sulphurous	Sulphuric
Rubber Covered	Good	Poor	Good	Poor	Good	Good
Lead Coated	Poor	Good	Poor	Poor	Good	Good
Aluminum	Good	Fair	Poor	Poor	Poor	Poor
Monel Metal	Fair	Poor	Fair	Fair	Poor	Good
Everdur	Good	Poor	Good	Poor	Good	Good
Stainless Steel (304)	Good	Good	Poor	Good	Good	Poor
Stainless Steel (316)	Good	Good	Poor	Good	Good	Poor

Classes and Types of Construction

BUFFALO Type "BL" fans described in this publication are Class I and Class II design.

CLASS I:

Fans are designed for operation against a maximum of 3¾" water gauge total pressure when handling air at 70° F. at sea level, and a maximum tip speed of 10,000 feet per minute. Anti-friction bearings are standard; sleeve bearings are optional. Class I ratings in tables following are in black on white.

CLASS II:

Fans are designed for operation against a maximum of 6¾" water gauge total pressure when handling air at 70° F. at sea level, and a maximum tip speed of 13,000 feet per minute. Anti-friction bearings only are furnished. Class II ratings are in black on blue.

Slip-joint inlet and slip-joint outlet are standard on Class I and II fans. Flanged inlets and/or outlet can be furnished when required, at extra cost.

The class of fan required can be easily determined by inspection of the chart below. All values are based on air handled at 70° F. and 29.92" barometer. For changes in temperature and altitude, obtain a correction factor from the chart on Page 19. Divide the static pressure by the factor and enter the chart below with the required outlet velocity and the resultant static pressure.

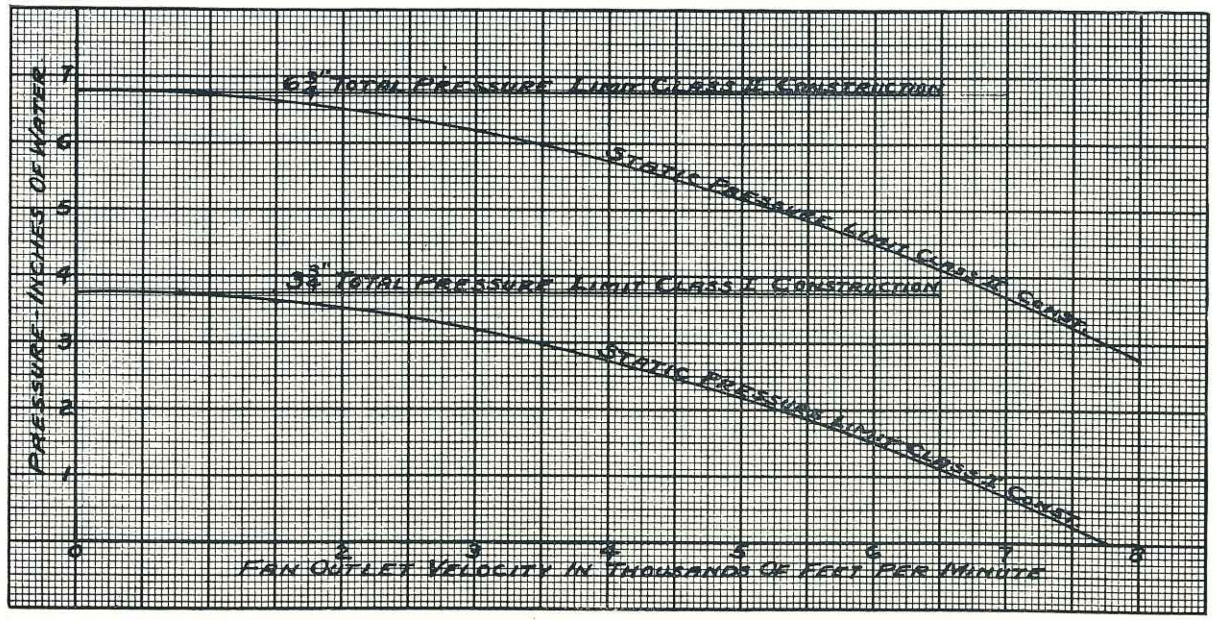
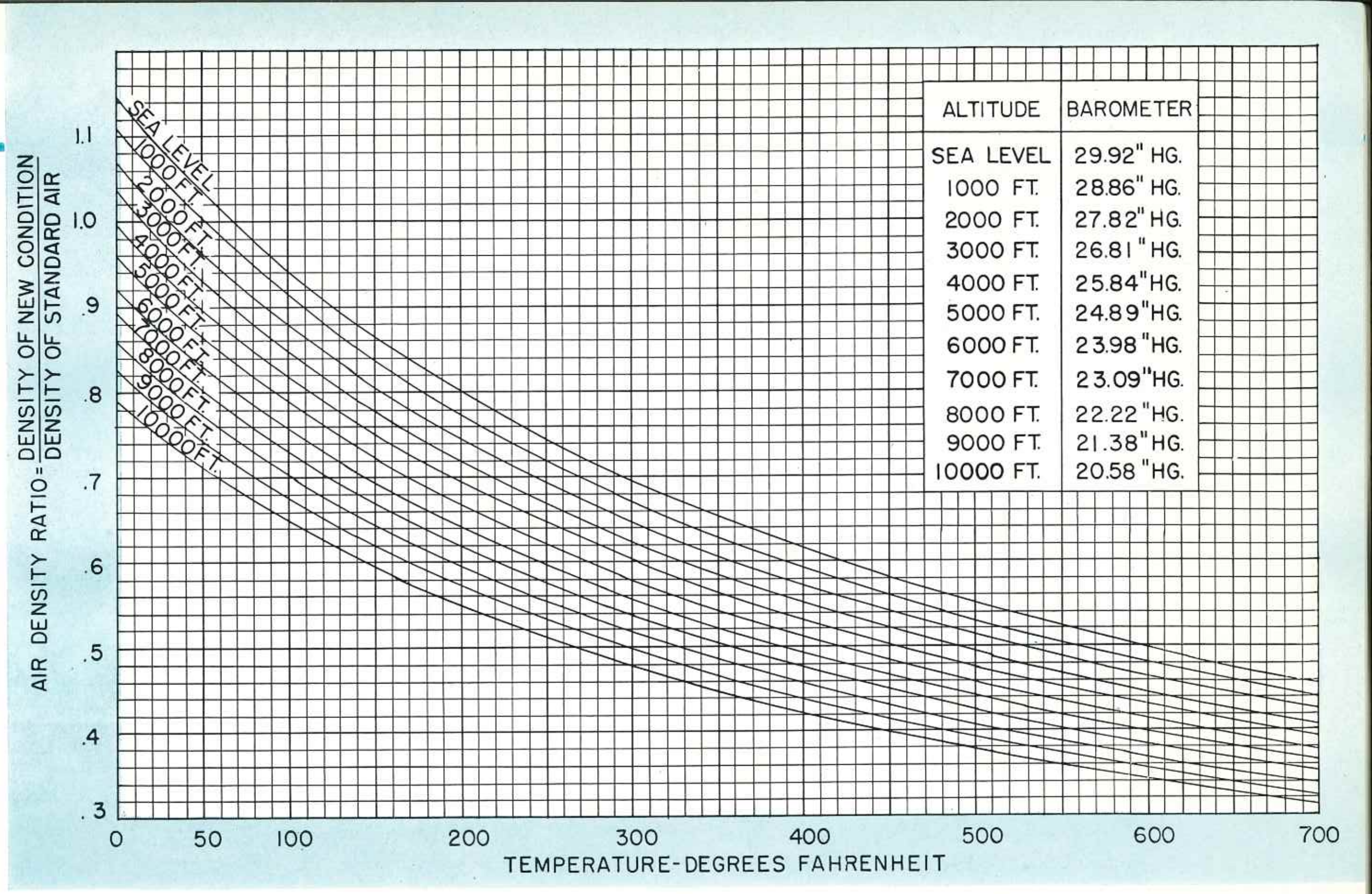


Fig. 25.



ALTITUDE	BAROMETER
SEA LEVEL	29.92" HG.
1000 FT.	28.86" HG.
2000 FT.	27.82" HG.
3000 FT.	26.81" HG.
4000 FT.	25.84" HG.
5000 FT.	24.89" HG.
6000 FT.	23.98" HG.
7000 FT.	23.09" HG.
8000 FT.	22.22" HG.
9000 FT.	21.38" HG.
10000 FT.	20.58" HG.

Fig. 26.

Elevated Temperature and Altitude

TO SELECT fans from performance tables for other than standard conditions (70° F., 29.92" Bar.), a correction must be applied before and after selection. With a given capacity in CFM and static pressure (both at operating conditions) the steps are as follows:

1. Obtain correction factor from Figure 26.
2. Divide static pressure by the correction factor to obtain equivalent static pressure.
3. Enter tables with CFM and equivalent static pressure obtaining RPM and BHP.
4. The RPM is correct as selected.
5. The BHP at operating condition is obtained by multiplying the selected BHP by the correction factor.

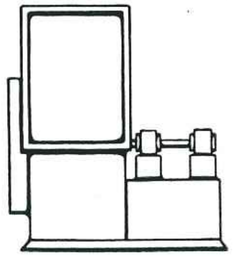
Method of Rating

The ratings in this catalog are strictly in accordance with the Standard Test Code adopted jointly by the ASH&VE and the NAFM. This code states that performance may be calculated for sizes other than tested providing the test fan size is no larger than the size in question. Type "BL" fan performance is based on tests of Sizes 245, 365, 540, 600, 660, 730 and 1200. The efficiency is lowest for the smallest size and improves with increased size.

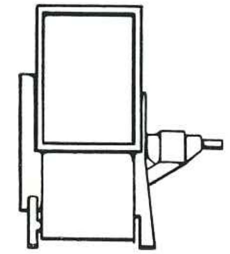
Single Inlet fans are tested in Arr. 1 and Double Inlet fans are tested in Arr. 3, in accordance with Plate I of the Standard Test Code.

The static efficiencies of the Double Inlet fans are lower than corresponding Single Inlet fans. Standard double inlet fans have only 1.8 times the outlet area of a single rather than twice the outlet area.

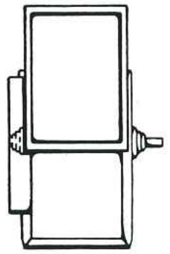
Standard Arrangements



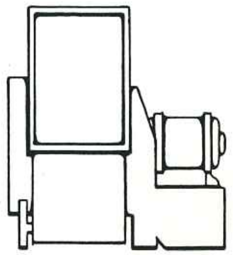
Arr. 1, Single Inlet.
For belt drive or direct connection. Wheel overhung. Two bearings on base.



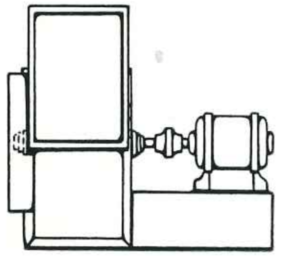
Arr. 2, Single Inlet.
For belt drive or direct connection. Wheel overhung. Bearings in bracket supported by fan housing.



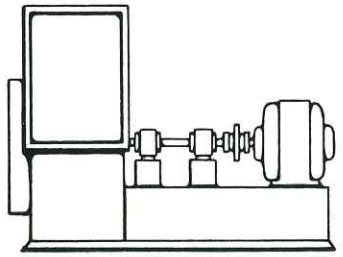
Arr. 3, Single Inlet.
For belt drive or direct connection. One bearing on each side and supported by fan housing.



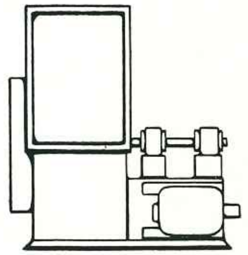
Arr. 4, Single Inlet.
For direct drive. Wheel overhung on prime mover shaft. No bearings on fan. Base or equivalent for prime mover.



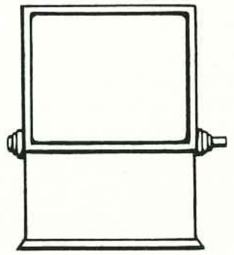
Arr. 7, Single Inlet.
For belt drive or direct connection. Arrangement 3 plus base for prime mover.



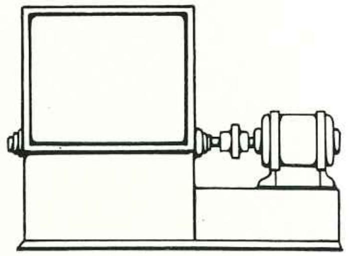
Arr. 8, Single Inlet.
For belt drive or direct connection. Arrangement 1 plus base for prime mover.



Arr. 9, Single Inlet.
For belt drive. Arrangement 1 designed for mounting prime mover on side of base.

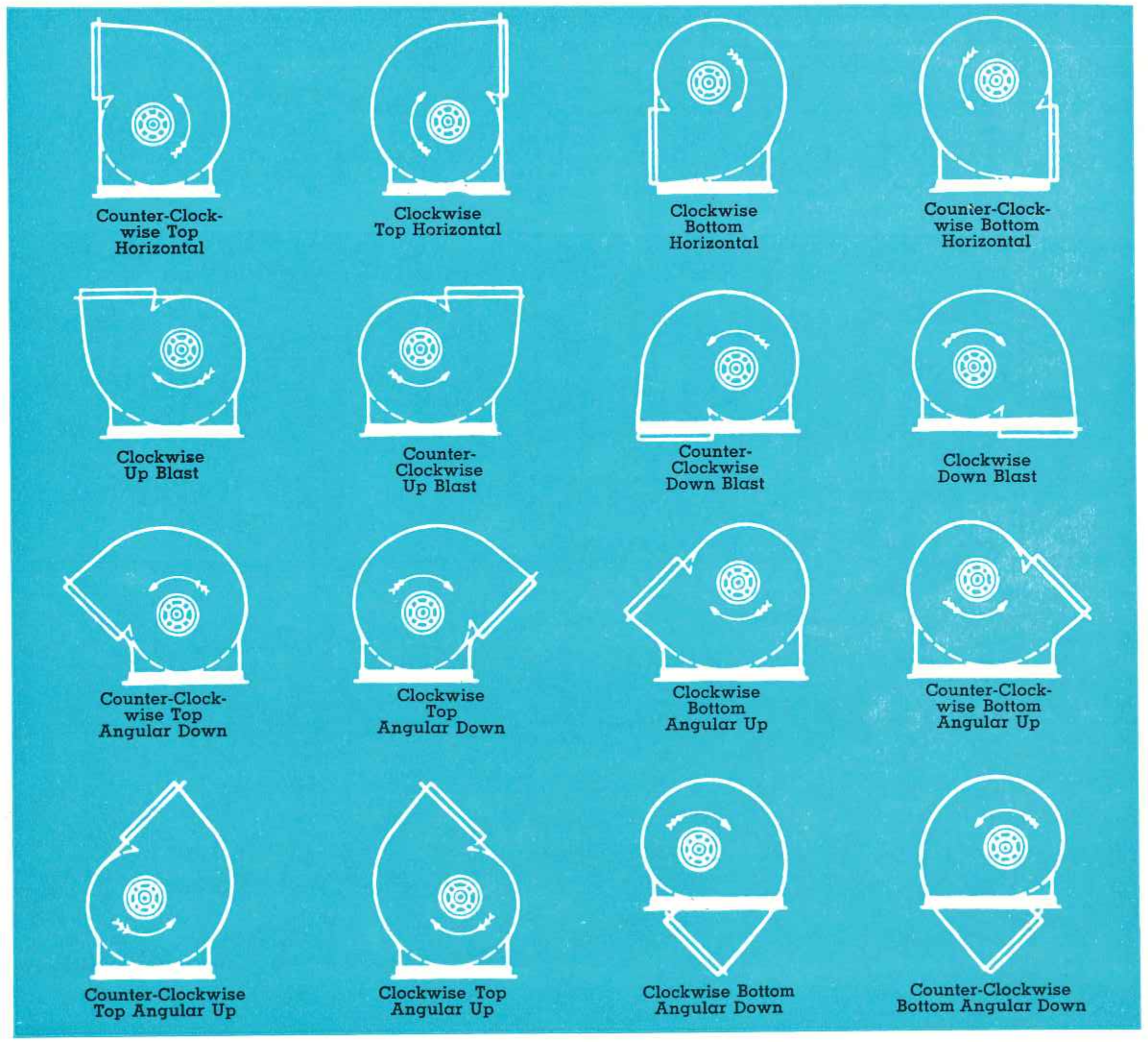


Arr. 3, Double Inlet.
For belt drive or direct connection. One bearing on each side and supported by fan housing.



Arr. 7, Double Inlet.
For belt drive or direct connection. Arrangement 3 plus base for prime mover.

Designation of Direction of Rotation and Discharge


Counter-Clockwise Top Horizontal
Clockwise Top Horizontal
Clockwise Bottom Horizontal
Counter-Clockwise Bottom Horizontal
Clockwise Up Blast
Counter-Clockwise Up Blast
Counter-Clockwise Down Blast
Clockwise Down Blast
Counter-Clockwise Top Angular Down
Clockwise Top Angular Down
Clockwise Bottom Angular Up
Counter-Clockwise Bottom Angular Up
Counter-Clockwise Top Angular Up
Clockwise Top Angular Up
Clockwise Bottom Angular Down
Counter-Clockwise Bottom Angular Down

Direction of Rotation is determined from drive side for either single or double inlet fans. (The driving side of a single inlet fan is considered to be the side opposite the inlet regardless of actual location of the drive.) For fan inverted for ceiling suspension, Direction of Rotation and Discharge is determined when fan is resting on floor.

Motor Position, Belt Drive

Location of motor is determined by facing the drive side of fan or blower and designating the motor position by letters W, X, Y or Z as the case may be.

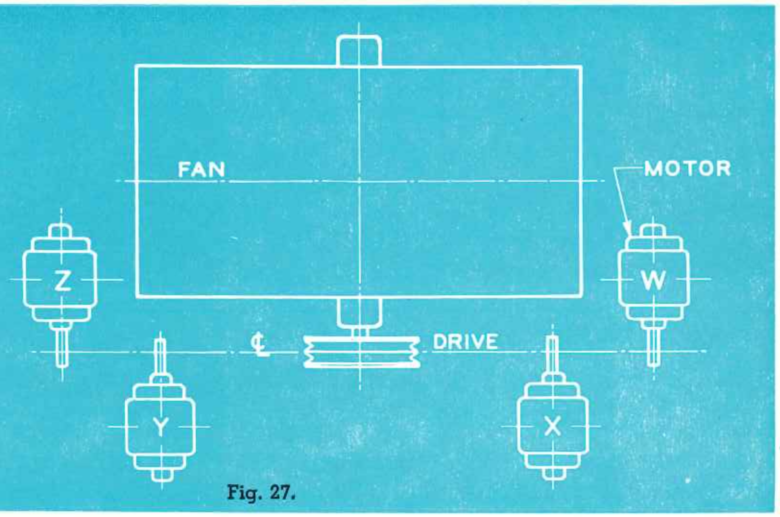


Fig. 27.

SIZE 245

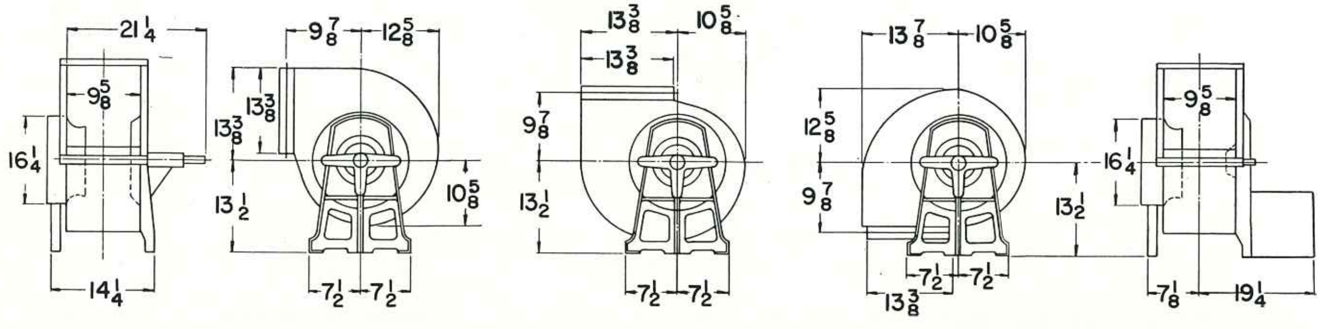
Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

SIZE 245

Wheel Diameter 12¼". Limit Load H.P. $= .0764 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 0.86 sq. ft. inside.

CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
688	800	857	.05	953	.06	1041	.08	1126	.10	1209	.12	1280	.14	1353	.16	1482	.20	1619	.25	1731	.29
774	900	919	.06	1005	.08	1090	.09	1167	.11	1247	.13	1319	.15	1384	.18	1510	.22	1635	.27	1756	.32
860	1000	982	.07	1061	.09	1139	.11	1214	.13	1285	.15	1353	.17	1423	.20	1550	.24	1670	.30	1785	.35
946	1100	1048	.09	1123	.11	1195	.13	1263	.15	1332	.17	1396	.19	1461	.22	1588	.27	1702	.32	1808	.38
1,032	1200	1118	.11	1187	.13	1253	.15	1320	.17	1379	.19	1447	.22	1505	.24	1625	.30	1737	.35	1843	.41
1,118	1300	1186	.13	1256	.15	1315	.17	1375	.20	1437	.22	1494	.25	1553	.27	1665	.33	1770	.38	1876	.44
1,204	1400	1259	.15	1321	.17	1379	.20	1438	.23	1494	.25	1550	.28	1602	.30	1709	.36	1813	.42	1916	.48
1,290	1500	1331	.18	1390	.20	1445	.23	1499	.26	1553	.29	1604	.31	1656	.34	1761	.40	1858	.46	1952	.52
1,376	1600	1405	.21	1457	.24	1513	.26	1565	.29	1617	.32	1662	.35	1713	.38	1815	.44	1908	.50	2001	.57
1,462	1700	1481	.24	1530	.27	1582	.29	1632	.33	1682	.36	1727	.39	1774	.43	1868	.49	1956	.55	2057	.62
1,548	1800	1556	.28	1601	.31	1654	.34	1699	.37	1748	.41	1790	.44	1836	.46	1925	.54	2010	.60	2099	.67
1,634	1900	1629	.32	1675	.35	1719	.39	1767	.42	1813	.45	1854	.49	1897	.53	1981	.59	2066	.66	2146	.73
1,720	2000	1707	.37	1752	.40	1793	.43	1836	.47	1881	.50	1923	.54	1962	.58	2046	.65	2126	.73	2205	.80
1,806	2100	1782	.42	1827	.45	1867	.49	1906	.52	1947	.56	1988	.57	2025	.64	2108	.72	2186	.79	2255	.87
1,892	2200	1859	.48	1902	.51	1941	.55	1978	.58	2020	.62	2055	.66	2096	.70	2177	.78	2248	.86	2321	.94
1,978	2300	1936	.54	1976	.57	2015	.61	2050	.65	2089	.69	2125	.73	2164	.77	2239	.86	2313	.94	2378	1.03
2,064	2400	2014	.61	2052	.64	2088	.68	2124	.72	2161	.76	2196	.80	2233	.85	2306	.93	2375	1.02	2443	1.11
2,150	2500	2092	.69	2127	.72	2166	.74	2199	.80	2236	.83	2267	.88	2304	.92	2374	1.01	2439	1.11	2510	1.20
2,236	2600	2171	.76	2205	.80	2240	.84	2274	.88	2307	.92	2339	.93	2372	1.01	2441	1.10	2508	1.20	2573	1.29
2,322	2700	2247	.85	2280	.89	2314	.93	2347	.96	2382	1.01	2412	1.06	2444	1.10	2510	1.19	2573	1.29	2636	1.39
2,408	2800	2325	.94	2359	.98	2392	1.01	2424	1.05	2457	1.09	2487	1.15	2517	1.19	2578	1.30	2641	1.39	2701	1.50
2,494	2900	2404	1.06	2437	1.07	2467	1.12	2498	1.17	2530	1.20	2560	1.25	2589	1.26	2648	1.40	2708	1.50	2769	1.61
2,580	3000	2483	1.16	2513	1.19	2544	1.24	2574	1.28	2606	1.30	2635	1.36	2662	1.41	2721	1.53	2781	1.62	2835	1.72
2,666	3100	2563	1.23	2590	1.31	2620	1.34	2651	1.38	2682	1.43	2709	1.48	2734	1.53	2792	1.64	2854	1.74	2906	1.84
2,752	3200	2644	1.33	2668	1.43	2698	1.49	2725	1.52	2757	1.55	2782	1.59	2808	1.66	2864	1.75	2917	1.87	2975	1.98



CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1,204	1400	2007	.55	2103	.61	2186	.68	2349	.83	2504	.98	2661	1.14	2816	1.30	2949	1.46	3055	1.62	3189	1.79
1,290	1500	2042	.59	2143	.66	2218	.73	2382	.88	2528	1.04	2683	1.20	2830	1.37	2960	1.54	3080	1.71	3210	1.89
1,376	1600	2090	.64	2175	.71	2256	.78	2418	.94	2560	1.10	2720	1.27	2847	1.44	2975	1.62	3098	1.80	3219	1.98
1,462	1700	2132	.69	2212	.76	2296	.84	2454	1.00	2603	1.16	2750	1.34	2880	1.51	2999	1.70	3122	1.88	3231	2.07
1,548	1800	2178	.74	2268	.82	2334	.90	2493	1.06	2635	1.23	2779	1.41	2912	1.59	3030	1.78	3139	1.97	3259	2.17
1,633	1900	2224	.80	2308	.88	2385	.96	2529	1.13	2670	1.30	2816	1.48	2947	1.67	3069	1.87	3171	2.06	3295	2.27
1,720	2000	2276	.87	2359	.95	2434	1.03	2570	1.20	2709	1.38	2859	1.56	2978	1.75	3104	1.96	3200	2.16	3326	2.37
1,806	2100	2325	.95	2408	1.02	2477	1.11	2615	1.28	2747	1.46	2890	1.65	3023	1.84	3132	2.05	3239	2.26	3344	2.47
1,892	2200	2390	1.03	2460	1.10	2528	1.19	2662	1.36	2796	1.55	2937	1.74	3068	1.94	3180	2.15	3281	2.36	3384	2.58
1,978	2300	2439	1.11	2517	1.19	2580	1.28	2719	1.45	2843	1.64	2974	1.84	3103	2.04	3212	2.25	3315	2.47	3430	2.69
2,064	2400	2504	1.20	2572	1.29	2638	1.37	2765	1.55	2890	1.74	3024	1.94	3143	2.15	3250	2.37	3356	2.58	3464	2.81
2,150	2500	2570	1.29	2630	1.39	2693	1.47	2820	1.66	2932	1.85	3060	2.05	3173	2.27	3287	2.49	3386	2.71	3486	2.94
2,236	2600	2631	1.39	2693	1.49	2749	1.58	2879	1.77	2988	1.97	3120	2.17	3221	2.39	3329	2.61	3427	2.84	3531	3.07
2,322	2700	2695	1.50	2756	1.59	2812	1.69	2930	1.89	3040	2.09	3181	2.29	3270	2.51	3377	2.74	3470	2.98	3568	3.21
2,408	2800	2757	1.62	2819	1.70	2875	1.81	2988	2.01	3097	2.22	3211	2.42	3321	2.64	3424	2.88	3511	3.12	3621	3.36
2,494	2900	2823	1.73	2883	1.83	2940	1.93	3051	2.14	3150	2.36	3271	2.56	3370	2.78	3472	3.02	3563	3.27	3668	3.52
2,580	3000	2891	1.85	2949	1.96	2997	2.06	3108	2.28	3208	2.51	3322	2.71	3421	2.94	3522	3.17	3617	3.43	3708	3.68
2,666	3100	2956	1.97	3012	2.09	3064	2.20	3171	2.42	3268	2.66	3375	2.87	3474	3.10	3565	3.34	3665	3.59	3759	3.85
2,752	3200	3024	2.10	3078	2.23	3130	2.35	3231	2.57	3326	2.82	3440	3.03	3532	3.28	3620	3.51	3715	3.76	3805	4.02
2,838	3300	3088	2.25	3145	2.37	3195	2.50	3297	2.74	3392	2.98	3493	3.21	3585	3.46	3682	3.69	3759	3.95	3861	4.20
2,924	3400	3161	2.40	3213	2.51	3264	2.65	3361	2.91	3450	3.15	3544	3.39	3644	3.64	3741	3.89	3814	4.15	3907	4.41
3,010	3500	3231	2.55	3272	2.67	3329	2.81	3427	3.08	3514	3.33	3612	3.57	3705	3.84	3790	4.10	3871	4.36		
3,096	3600	3302	2.72	3350	2.84	3399	2.98	3492	3.25	3579	3.52	3678	3.76	3760	4.04	3850	4.31	3931	4.59		
3,268	3800	3443	3.09	3486	3.22	3533	3.35	3634	3.62	3710	3.92	3807	4.18	3888	4.47	3961	4.74	4039	5.06		
3,440	4000	3583	3.45	3631	3.62	3673	3.76	3760	4.03	3851	4.35	3931	4.63	4016	4.92						

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.
No fixed inlet guide vanes furnished on this size.

SIZE 270

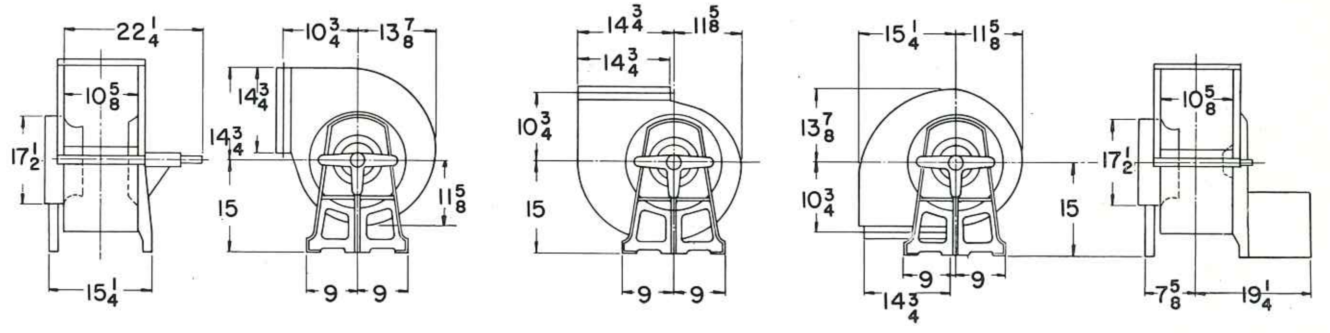
Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

SIZE 270

Wheel Diameter 13½". Limit Load H.P. $= .124 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 1.04 sq. ft. inside.

CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
832	800	778	.06	865	.07	945	.10	1022	.12	1097	.15	1024	.17	1228	.19	1345	.24	1469	.30	1571	.35
936	900	834	.07	912	.10	989	.11	1059	.13	1132	.16	1197	.18	1256	.22	1370	.27	1484	.33	1593	.39
1,040	1000	891	.09	963	.11	1034	.13	1102	.16	1166	.18	1228	.21	1291	.24	1406	.29	1515	.36	1620	.43
1,144	1100	951	.10	1019	.13	1084	.16	1146	.18	1209	.21	1267	.23	1326	.27	1441	.33	1544	.39	1641	.46
1,248	1200	1014	.13	1077	.16	1137	.18	1198	.21	1251	.23	1313	.27	1366	.29	1475	.36	1576	.43	1672	.50
1,352	1300	1076	.16	1140	.18	1193	.21	1248	.24	1304	.27	1356	.30	1409	.33	1510	.40	1606	.46	1702	.53
1,456	1400	1142	.18	1199	.21	1251	.24	1305	.28	1356	.30	1406	.34	1454	.36	1551	.44	1645	.51	1739	.58
1,560	1500	1208	.22	1261	.24	1311	.28	1360	.32	1409	.35	1455	.38	1503	.41	1598	.49	1686	.56	1771	.63
1,664	1600	1275	.26	1322	.29	1373	.32	1420	.35	1467	.39	1508	.43	1554	.46	1647	.53	1731	.61	1816	.69
1,768	1700	1344	.29	1388	.33	1436	.35	1481	.40	1526	.44	1567	.47	1610	.52	1695	.60	1775	.67	1867	.75
1,872	1800	1412	.34	1453	.38	1501	.41	1542	.45	1586	.50	1624	.53	1666	.56	1747	.66	1824	.73	1905	.81
1,976	1900	1478	.39	1520	.43	1560	.47	1603	.51	1645	.55	1692	.60	1721	.64	1798	.72	1875	.80	1947	.89
2,080	2000	1549	.45	1590	.49	1627	.52	1666	.57	1707	.61	1745	.66	1780	.70	1857	.79	1929	.89	2001	.97
2,184	2100	1617	.51	1658	.55	1694	.60	1730	.63	1767	.68	1804	.69	1837	.78	1913	.87	1984	.96	2046	1.06
2,288	2200	1687	.58	1726	.62	1761	.67	1795	.70	1833	.75	1865	.80	1902	.85	1975	.95	2040	1.04	2106	1.14
2,392	2300	1757	.66	1793	.69	1828	.74	1860	.79	1896	.84	1928	.89	1964	.94	2032	1.04	2099	1.14	2158	1.25
2,496	2400	1828	.74	1862	.78	1895	.83	1927	.87	1961	.92	1993	.97	2026	1.03	2092	1.13	2155	1.24	2217	1.35
2,600	2500	1898	.84	1930	.87	1965	.90	1995	.97	2029	1.01	2057	1.07	2091	1.12	2154	1.23	2213	1.35	2278	1.46
2,704	2600	1970	.92	2001	.97	2033	1.02	2063	1.07	2093	1.12	2122	1.13	2152	1.23	2215	1.34	2276	1.46	2335	1.57
2,808	2700	2039	1.03	2069	1.08	2100	1.13	2130	1.17	2161	1.23	2189	1.29	2218	1.34	2278	1.45	2335	1.57	2392	1.69
2,912	2800	2110	1.14	2141	1.19	2171	1.23	2200	1.28	2229	1.32	2257	1.40	2284	1.45	2339	1.58	2396	1.69	2451	1.82
3,016	2900	2181	1.29	2211	1.30	2239	1.36	2267	1.42	2296	1.46	2323	1.52	2349	1.53	2403	1.70	2457	1.82	2513	1.96
3,120	3000	2253	1.41	2280	1.45	2308	1.51	2336	1.55	2365	1.58	2391	1.65	2415	1.71	2469	1.86	2523	1.97	2572	2.09
3,224	3100	2326	1.49	2350	1.59	2377	1.63	2406	1.68	2434	1.74	2458	1.80	2480	1.86	2533	1.99	2590	2.11	2637	2.23
3,328	3200	2399	1.62	2421	1.74	2448	1.81	2473	1.85	2502	1.88	2524	1.93	2548	2.02	2599	2.13	2647	2.27	2700	2.40



CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1,456	1400	1821	.67	1908	.74	1983	.83	2131	1.01	2272	1.19	2415	1.38	2555	1.58	2676	1.77	2772	1.97	2894	2.17
1,560	1500	1853	.72	1945	.80	2013	.89	2161	1.07	2294	1.26	2435	1.46	2568	1.66	2686	1.87	2795	2.08	2913	2.30
1,664	1600	1896	.78	1974	.86	2047	.95	2194	1.14	2324	1.34	2468	1.54	2583	1.75	2700	1.97	2811	2.19	2921	2.40
1,768	1700	1935	.84	2007	.92	2083	1.02	2227	1.21	2362	1.41	2495	1.63	2613	1.83	2721	2.06	2833	2.28	2932	2.51
1,872	1800	1976	.90	2058	1.00	2118	1.09	2262	1.29	2391	1.49	2522	1.71	2642	1.93	2749	2.16	2848	2.39	2957	2.64
1,976	1900	2018	.97	2094	1.07	2164	1.17	2295	1.37	2423	1.58	2555	1.80	2674	2.03	2785	2.27	2877	2.50	2990	2.76
2,080	2000	2065	1.06	2141	1.15	2209	1.25	2332	1.46	2458	1.68	2594	1.89	2702	2.13	2817	2.38	2904	2.62	3018	2.88
2,184	2100	2110	1.15	2185	1.24	2248	1.35	2373	1.55	2493	1.77	2622	2.00	2743	2.23	2842	2.49	2939	2.74	3034	3.00
2,288	2200	2169	1.25	2232	1.34	2294	1.45	2415	1.65	2537	1.88	2665	2.11	2784	2.36	2886	2.61	2977	2.87	3071	3.13
2,392	2300	2213	1.35	2284	1.45	2341	1.55	2467	1.76	2580	1.99	2699	2.23	2816	2.48	2915	2.73	3008	3.00	3112	3.27
2,496	2400	2272	1.46	2334	1.57	2394	1.66	2509	1.88	2622	2.11	2744	2.36	2852	2.61	2949	2.88	3045	3.13	3143	3.41
2,600	2500	2332	1.57	2386	1.69	2444	1.79	2559	2.02	2660	2.25	2777	2.49	2879	2.76	2983	3.02	3072	3.29	3163	3.57
2,704	2600	2387	1.69	2444	1.81	2494	1.92	2612	2.15	2711	2.39	2831	2.64	2923	2.90	3021	3.17	3110	3.45	3204	3.73
2,808	2700	2445	1.82	2501	1.93	2552	2.05	2659	2.30	2758	2.54	2886	2.78	2967	3.05	3064	3.33	3149	3.62	3238	3.90
2,912	2800	2502	1.97	2558	2.06	2609	2.20	2711	2.44	2810	2.70	2914	2.94	3013	3.21	3107	3.50	3186	3.79	3286	4.08
3,016	2900	2562	2.10	2616	2.22	2668	2.34	2768	2.60	2858	2.87	2968	3.11	3058	3.38	3150	3.67	3233	3.97	3328	4.27
3,120	3000	2623	2.25	2676	2.34	2719	2.50	2820	2.77	2911	3.05	3014	3.29	3104	3.57	3196	3.85	3282	4.17	3365	4.47
3,224	3100	2682	2.39	2733	2.54	2780	2.67	2877	2.94	2965	3.23	3062	3.49	3152	3.76	3235	4.06	3326	4.36	3411	4.68
3,328	3200	2744	2.55	2793	2.71	2840	2.85	2931	3.12	3018	3.42	3121	3.68	3205	3.98	3285	4.26	3371	4.57	3453	4.88
3,432	3300	2802	2.73	2854	2.88	2899	3.04	2992	3.33	3078	3.62	3170	3.90	3253	4.20	3341	4.48	3411	4.80	3503	5.10
3,536	3400	2868	2.91	2915	3.05	2962	3.22	3050	3.53	3131	3.83	3216	4.12	3307	4.42	3395	4.72	3461	5.04	3545	5.36
3,640	3500	2932	3.10	2969	3.24	3021	3.41	3110	3.74	3189	4.04	3278	4.34	3362	4.66	3439	4.98	3513	5.29		
3,744	3600	2996	3.30	3040	3.45	3084	3.62	3169	3.95	3248	4.27	3337	4.57	3412	4.91	3493	5.23	3567	5.57		
3,952	3800	3124	3.75	3163	3.91	3206	4.07	3297	4.40	3366	4.76	3454	5.08	3528	5.42	3594	5.76	3665	6.14		
4,160	4000	3251	4.19	3295	4.40	3333	4.57	3412	4.89	3494	5.28	3567	5.62	3644	5.97						

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.
No fixed inlet guide vanes furnished on this size.

SIZE 300

Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

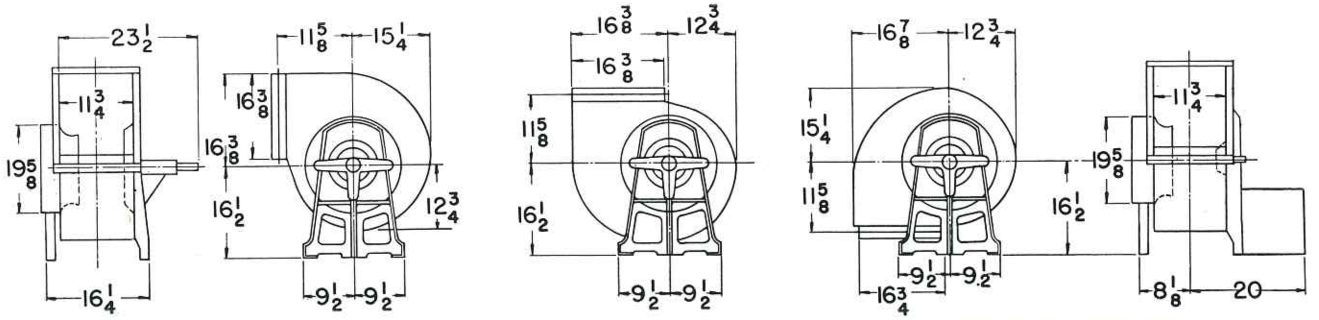
SIZE 300

Wheel Diameter 15″.

Limit Load H.P. $= .210 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

Outlet Area 1.28 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1,024	800	700	.07	778	.09	850	.12	920	.15	987	.18	1045	.21	1105	.23	1210	.30	1322	.37	1414	.43
1,152	900	751	.09	821	.12	890	.13	953	.16	1018	.19	1077	.22	1130	.27	1233	.33	1335	.40	1434	.48
1,280	1000	802	.10	867	.13	930	.16	991	.19	1049	.22	1105	.25	1162	.30	1266	.36	1364	.45	1458	.52
1,408	1100	856	.13	917	.16	976	.19	1031	.22	1088	.25	1140	.28	1193	.33	1297	.40	1390	.48	1477	.57
1,536	1200	913	.16	969	.19	1023	.22	1078	.25	1126	.28	1182	.33	1229	.36	1327	.45	1419	.52	1505	.61
1,664	1300	969	.19	1026	.22	1074	.25	1123	.30	1174	.33	1220	.37	1268	.40	1360	.49	1446	.57	1532	.66
1,792	1400	1028	.22	1079	.25	1126	.30	1174	.34	1220	.37	1266	.42	1308	.45	1396	.54	1481	.63	1565	.72
1,920	1500	1087	.27	1135	.30	1180	.34	1224	.39	1268	.43	1310	.46	1352	.51	1438	.60	1517	.69	1594	.78
2,048	1600	1147	.31	1190	.36	1236	.39	1278	.43	1321	.48	1357	.52	1399	.57	1482	.66	1558	.75	1634	.85
2,176	1700	1210	.36	1250	.40	1292	.43	1333	.49	1374	.54	1410	.58	1449	.64	1526	.73	1597	.82	1680	.93
2,304	1800	1271	.42	1308	.46	1351	.51	1388	.55	1428	.61	1462	.66	1499	.69	1572	.81	1642	.90	1714	1.00
2,432	1900	1330	.48	1368	.52	1404	.58	1443	.63	1481	.67	1514	.73	1549	.79	1618	.88	1687	.99	1753	1.09
2,560	2000	1394	.55	1431	.60	1464	.64	1499	.70	1536	.75	1571	.81	1602	.87	1671	.97	1736	1.09	1801	1.20
2,688	2100	1455	.63	1492	.67	1525	.73	1557	.78	1590	.84	1624	.85	1654	.96	1722	1.08	1785	1.18	1842	1.30
2,816	2200	1518	.72	1553	.76	1585	.82	1615	.87	1650	.93	1678	.99	1712	1.05	1778	1.17	1836	1.29	1896	1.41
2,944	2300	1581	.81	1614	.85	1646	.91	1674	.97	1706	1.03	1735	1.09	1767	1.15	1829	1.29	1889	1.41	1942	1.54
3,072	2400	1645	.91	1676	.96	1705	1.02	1735	1.08	1765	1.14	1793	1.20	1824	1.27	1883	1.39	1940	1.53	1995	1.66
3,200	2500	1709	1.03	1737	1.08	1769	1.11	1796	1.20	1826	1.24	1851	1.32	1882	1.38	1939	1.51	1992	1.66	2050	1.80
3,328	2600	1773	1.14	1801	1.20	1829	1.26	1857	1.32	1884	1.38	1910	1.39	1937	1.51	1994	1.65	2048	1.80	2101	1.93
3,456	2700	1835	1.27	1862	1.33	1890	1.39	1917	1.44	1945	1.51	1970	1.59	1993	1.65	2050	1.78	2101	1.93	2153	2.08
3,584	2800	1899	1.41	1927	1.47	1954	1.51	1980	1.57	2007	1.63	2031	1.72	2056	1.78	2105	1.95	2157	2.08	2206	2.25
3,712	2900	1963	1.59	1990	1.60	2015	1.68	2040	1.75	2066	1.80	2091	1.87	2114	1.89	2163	2.10	2212	2.25	2261	2.41
3,840	3000	2028	1.74	2052	1.78	2078	1.86	2102	1.92	2128	1.95	2152	2.04	2174	2.11	2222	2.29	2271	2.43	2315	2.58
3,968	3100	2093	1.84	2115	1.96	2140	2.01	2165	2.07	2190	2.14	2212	2.22	2232	2.29	2280	2.46	2331	2.61	2373	2.76
4,096	3200	2159	1.99	2179	2.14	2203	2.23	2226	2.28	2252	2.32	2272	2.38	2293	2.49	2339	2.62	2382	2.80	2430	2.97



CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1,792	1400	1639	.82	1740	.91	1785	1.02	1918	1.24	2045	1.47	2173	1.71	2300	1.95	2408	2.19	2495	2.43	2604	2.68
1,920	1500	1668	.88	1750	.99	1811	1.09	1945	1.32	2065	1.56	2191	1.80	2311	2.05	2417	2.31	2515	2.56	2622	2.83
2,048	1600	1707	.96	1776	1.06	1842	1.17	1975	1.41	2091	1.65	2221	1.90	2325	2.16	2430	2.43	2530	2.70	2629	2.97
2,176	1700	1741	1.03	1807	1.14	1875	1.26	2004	1.50	2126	1.74	2246	2.01	2352	2.26	2449	2.55	2550	2.82	2639	3.10
2,304	1800	1779	1.11	1852	1.23	1906	1.35	2036	1.59	2152	1.84	2270	2.11	2378	2.38	2475	2.67	2564	2.95	2662	3.25
2,432	1900	1816	1.20	1885	1.32	1948	1.44	2065	1.69	2181	1.95	2300	2.22	2407	2.50	2506	2.80	2590	3.09	2691	3.40
2,560	2000	1859	1.30	1927	1.42	1988	1.54	2099	1.80	2212	2.07	2335	2.34	2432	2.62	2535	2.94	2613	3.24	2716	3.55
2,688	2100	1899	1.42	1967	1.53	2023	1.66	2136	1.92	2243	2.19	2360	2.47	2469	2.76	2558	3.07	2645	3.39	2731	3.70
2,816	2200	1952	1.54	2009	1.65	2065	1.78	2174	2.04	2283	2.32	2399	2.61	2506	2.91	2597	3.22	2680	3.54	2764	3.87
2,944	2300	1992	1.66	2056	1.78	2107	1.92	2221	2.17	2322	2.46	2429	2.76	2534	3.06	2623	3.37	2707	3.70	2801	4.03
3,072	2400	2045	1.80	2101	1.93	2154	2.05	2258	2.32	2360	2.61	2470	2.91	2567	3.22	2654	3.55	2741	3.87	2829	4.21
3,200	2500	2099	1.93	2148	2.08	2199	2.20	2303	2.49	2395	2.77	2499	3.07	2591	3.40	2684	3.73	2765	4.06	2847	4.41
3,328	2600	2149	2.08	2199	2.23	2245	2.37	2351	2.65	2440	2.95	2548	3.25	2631	3.58	2719	3.91	2799	4.26	2884	4.60
3,456	2700	2201	2.25	2251	2.38	2297	2.53	2393	2.83	2483	3.13	2598	3.43	2671	3.76	2758	4.11	2834	4.47	2914	4.81
3,584	2800	2252	2.43	2302	2.55	2348	2.71	2440	3.01	2529	3.33	2622	3.63	2712	3.96	2796	4.32	2867	4.68	2957	5.04
3,712	2900	2306	2.59	2355	2.77	2401	2.89	2492	3.21	2573	3.54	2671	3.84	2752	4.17	2836	4.53	2910	4.90	2996	5.28
3,840	3000	2361	2.77	2408	2.94	2448	3.09	2538	3.42	2620	3.76	2713	4.06	2794	4.41	2876	4.75	2954	5.14	3028	5.52
3,968	3100	2414	2.95	2460	3.13	2502	3.30	2590	3.63	2669	3.99	2756	4.30	2837	4.65	2912	5.01	2993	5.38	3070	5.77
4,096	3200	2470	3.15	2514	3.34	2556	3.52	2639	3.85	2716	4.23	2809	4.54	2885	4.92	2956	5.26	3034	5.64	3108	6.03
4,224	3300	2522	3.37	2569	3.55	2609	3.75	2693	4.10	2770	4.47	2853	4.81	2928	5.19	3007	5.53	3070	5.92	3153	6.30
4,352	3400	2582	3.60	2624	3.76	2666	3.97	2745	4.36	2818	4.72	2894	5.08	2976	5.46	3055	5.83	3115	6.22	3191	6.61
4,480	3500	2639	3.82	2672	4.00	2719	4.21	2799	4.62	2870	4.99	2950	5.35	3026	5.76	3095	6.15	3161	6.54		
4,608	3600	2697	4.08	2736	4.26	2776	4.47	2852	4.87	2923	5.28	3004	5.64	3071	6.06	3144	6.46	3210	6.88		
4,864	3800	2812	4.63	2847	4.83	2885	5.02	2968	5.43	3030	5.88	3109	6.27	3175	6.70	3235	7.11	3299	7.59		
5,120	4000	2926	5.17	2965	5.43	3000	5.64	3071	6.04	3145	6.52	3210	6.94	3280	7.38						

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue. No fixed inlet guide vanes furnished on this size.

SIZE 330

Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

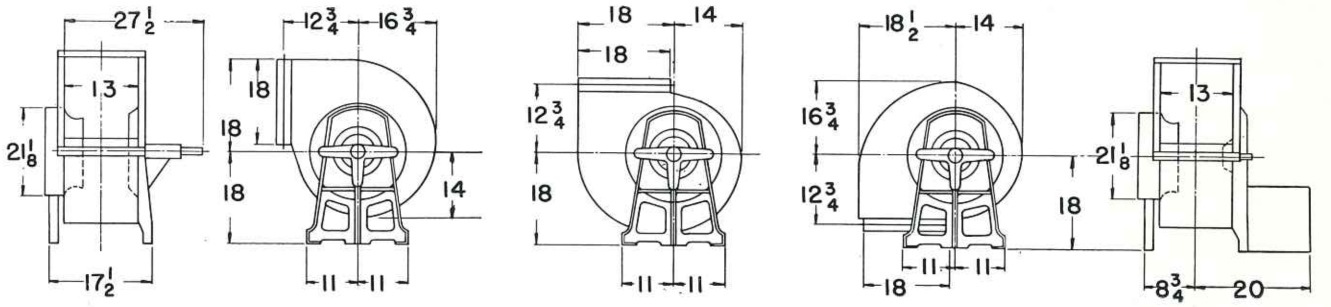
SIZE 330

Wheel Diameter 16½″.

Limit Load H.P. $= .336 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

Outlet Area 1.56 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1,248	800	636	.09	708	.11	773	.15	836	.18	898	.22	950	.25	1004	.29	1100	.36	1202	.45	1285	.53
1,404	900	682	.11	746	.15	809	.16	866	.20	926	.24	979	.27	1027	.33	1121	.40	1214	.49	1304	.58
1,560	1000	729	.13	788	.16	846	.20	901	.24	954	.27	1004	.31	1056	.36	1151	.44	1240	.54	1325	.64
1,716	1100	778	.16	834	.20	887	.24	938	.27	989	.31	1036	.34	1085	.40	1179	.49	1264	.58	1342	.69
1,872	1200	830	.20	881	.24	930	.27	980	.31	1024	.34	1074	.40	1117	.44	1206	.54	1290	.64	1368	.74
2,028	1300	880	.24	932	.27	976	.31	1021	.36	1067	.40	1109	.45	1153	.49	1236	.60	1314	.69	1393	.80
2,184	1400	935	.27	981	.31	1024	.36	1068	.42	1109	.45	1151	.51	1189	.54	1269	.65	1346	.76	1422	.87
2,340	1500	988	.33	1032	.36	1073	.42	1113	.47	1153	.53	1191	.56	1229	.62	1307	.73	1379	.83	1449	.94
2,496	1600	1043	.38	1082	.44	1123	.47	1162	.53	1200	.58	1234	.64	1272	.69	1347	.80	1416	.91	1486	1.03
2,652	1700	1099	.44	1136	.49	1174	.53	1212	.60	1249	.65	1282	.71	1317	.78	1387	.89	1452	1.00	1527	1.12
2,808	1800	1155	.51	1189	.56	1228	.62	1261	.67	1298	.74	1329	.80	1363	.83	1429	.98	1492	1.09	1558	1.22
2,964	1900	1209	.58	1244	.64	1276	.71	1312	.76	1346	.82	1376	.89	1408	.96	1471	1.07	1534	1.20	1593	1.32
3,120	2000	1267	.67	1301	.73	1331	.78	1363	.85	1396	.91	1428	.98	1457	1.05	1519	1.18	1578	1.32	1637	1.46
3,276	2100	1323	.76	1356	.82	1386	.89	1415	.94	1445	1.02	1476	1.03	1503	1.16	1565	1.31	1623	1.43	1674	1.58
3,432	2200	1380	.87	1412	.93	1441	1.00	1468	1.05	1500	1.12	1526	1.20	1556	1.27	1616	1.42	1669	1.56	1723	1.71
3,588	2300	1437	.98	1467	1.03	1496	1.11	1522	1.18	1551	1.25	1578	1.32	1607	1.40	1662	1.56	1717	1.71	1765	1.87
3,744	2400	1495	1.11	1523	1.16	1550	1.23	1577	1.31	1604	1.38	1630	1.45	1658	1.54	1712	1.69	1763	1.85	1814	2.01
3,900	2500	1553	1.25	1579	1.31	1608	1.34	1633	1.45	1660	1.51	1683	1.60	1710	1.67	1762	1.83	1811	2.01	1863	2.18
4,056	2600	1612	1.38	1637	1.45	1663	1.52	1688	1.60	1713	1.67	1736	1.69	1761	1.83	1812	2.00	1862	2.18	1910	2.34
4,212	2700	1668	1.54	1693	1.61	1718	1.69	1742	1.74	1768	1.83	1791	1.92	1814	2.00	1863	2.16	1910	2.34	1957	2.52
4,368	2800	1726	1.71	1751	1.78	1776	1.83	1800	1.91	1824	1.98	1846	2.09	1869	2.16	1914	2.36	1961	2.52	2005	2.72
4,524	2900	1785	1.92	1809	1.94	1832	2.03	1855	2.12	1878	2.18	1900	2.27	1922	2.29	1966	2.54	2010	2.72	2056	2.92
4,680	3000	1843	2.10	1866	2.16	1889	2.25	1911	2.32	1935	2.36	1956	2.47	1976	2.56	2020	2.78	2065	2.94	2105	3.12
4,836	3100	1903	2.23	1923	2.38	1945	2.43	1968	2.50	1991	2.59	2011	2.69	2030	2.78	2073	2.98	2119	3.16	2157	3.34
4,992	3200	1963	2.41	1980	2.59	2003	2.70	2023	2.76	2047	2.81	2065	2.88	2085	3.01	2126	3.18	2166	3.39	2209	3.59



CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2,184	1400	1490	1.00	1561	1.11	1623	1.23	1744	1.51	1859	1.78	1976	2.07	2091	2.36	2189	2.65	2268	2.94	2368	3.25
2,340	1500	1516	1.07	1591	1.20	1647	1.32	1768	1.60	1877	1.89	1992	2.18	2101	2.49	2198	2.79	2287	3.10	2383	3.43
2,496	1600	1552	1.16	1615	1.29	1675	1.42	1795	1.71	1901	2.00	2019	2.30	2114	2.61	2209	2.94	2300	3.27	2390	3.59
2,652	1700	1583	1.25	1642	1.38	1705	1.52	1822	1.81	1932	2.10	2042	2.43	2138	2.74	2226	3.08	2318	3.41	2399	3.76
2,808	1800	1617	1.34	1684	1.49	1733	1.63	1851	1.92	1956	2.23	2063	2.56	2162	2.88	2249	3.23	2330	3.57	2419	3.94
2,964	1900	1651	1.45	1713	1.60	1771	1.74	1878	2.05	1982	2.36	2091	2.69	2188	3.03	2278	3.39	2354	3.74	2446	4.12
3,120	2000	1690	1.58	1751	1.72	1807	1.87	1908	2.18	2011	2.50	2123	2.83	2211	3.18	2304	3.56	2376	3.92	2469	4.30
3,276	2100	1726	1.72	1788	1.85	1839	2.01	1941	2.32	2039	2.65	2146	2.99	2244	3.34	2325	3.72	2405	4.10	2483	4.48
3,432	2200	1774	1.87	1826	2.00	1877	2.16	1976	2.47	2076	2.81	2180	3.16	2278	3.52	2361	3.90	2436	4.28	2512	4.68
3,588	2300	1811	2.01	1869	2.16	1915	2.32	2019	2.63	2111	2.98	2208	3.34	2304	3.70	2385	4.08	2461	4.48	2546	4.88
3,744	2400	1859	2.18	1909	2.34	1958	2.49	2052	2.81	2146	3.16	2245	3.52	2333	3.90	2413	4.30	2491	4.68	2572	5.10
3,900	2500	1908	2.34	1953	2.52	1999	2.67	2094	3.01	2177	3.36	2272	3.72	2356	4.12	2440	4.52	2514	4.92	2588	5.33
4,056	2600	1953	2.52	1999	2.70	2041	2.87	2137	3.21	2218	3.57	2316	3.94	2391	4.34	2471	4.74	2544	5.15	2621	5.57
4,212	2700	2001	2.72	2046	2.88	2088	3.07	2175	3.43	2257	3.79	2362	4.15	2428	4.55	2507	4.97	2576	5.41	2649	5.82
4,368	2800	2047	2.94	2093	3.08	2134	3.28	2218	3.65	2299	4.03	2384	4.39	2466	4.79	2542	5.23	2607	5.66	2688	6.10
4,524	2900	2096	3.14	2140	3.32	2183	3.50	2265	3.88	2339	4.28	2428	4.64	2502	5.04	2578	5.48	2645	5.93	2723	6.39
4,680	3000	2146	3.36	2189	3.56	2225	3.74	2307	4.14	2382	4.55	2466	4.92	2540	5.33	2615	5.75	2685	6.22	2753	6.68
4,836	3100	2195	3.57	2236	3.79	2275	3.99	2354	4.39	2426	4.83	2506	5.21	2579	5.62	2625	6.06	2721	6.51	2791	6.99
4,992	3200	2245	3.81	2285	4.05	2324	4.26	2399	4.66	2469	5.12	2554	5.50	2622	5.95	2687	6.37	2758	6.82	2825	7.29
5,148	3300	2293	4.08	2335	4.30	2372	4.54	2448	4.97	2518	5.41	2593	5.82	2662	6.28	2734	6.70	2791	7.17	2866	7.62
5,304	3400	2347	4.35	2385	4.55	2423	4.81	2495	5.28	2561	5.72	2631	6.15	2705	6.60	2777	7.06	2832	7.53	2901	8.00
5,460	3500	2399	4.63	2429	4.84	2471	5.10	2544	5.59	2609	6.04	2682	6.48	2751	6.97	2814	7.44	2874	7.91		
5,616	3600	2451	4.94	2487	5.15	2523	5.41	2592	5.90	2657	6.39	2731	6.82	2791	7.33	2858	7.82	2918	8.33		
5,928	3800	2556	5.61	2588	5.84	2623	6.08	2698	6.57	2754	7.11	2826	7.58	2886	8.11	2941	8.60	2999	9.18		
6,240	4000	2660	6.26	2696	6.57	2727	6.82	2791	7.31	2859	7.89	2918	7.40	2981	8.93						

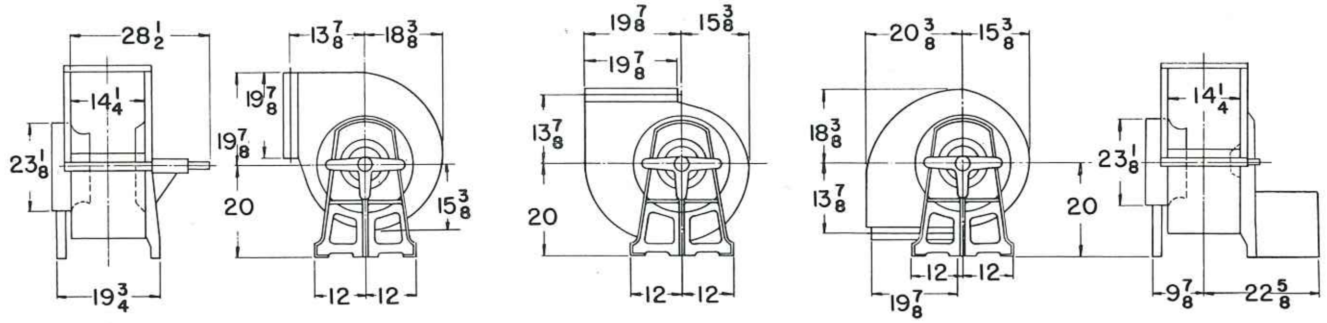
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue. No fixed inlet guide vanes furnished on this size.

SIZE 365 Buffalo Single Inlet Limit-Load Type "BL" Fans SIZE 365

REG. U.S. PAT. OFF.

Wheel Diameter 18¼". Limit Load H.P. $= .506 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 1.90 sq. ft. inside.

CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1520	800	577	.10	633	.13	691	.17	744	.20	791	.24	837	.29	883	.33	963	.43	1052	.53	1130	.63
1710	900	619	.12	674	.15	723	.19	773	.23	823	.27	869	.32	905	.37	983	.47	1061	.57	1138	.68
1900	1000	662	.14	715	.18	765	.22	807	.27	853	.31	898	.36	934	.41	1009	.51	1086	.62	1152	.74
2090	1100	705	.17	757	.22	804	.26	847	.31	885	.35	927	.40	967	.45	1040	.56	1110	.67	1176	.79
2280	1200	748	.20	800	.25	844	.30	886	.35	923	.40	961	.45	1001	.50	1074	.61	1139	.73	1203	.85
2470	1300	794	.24	842	.29	887	.35	926	.40	964	.45	999	.50	1034	.56	1103	.67	1170	.79	1231	.92
2660	1400	840	.28	885	.34	930	.40	968	.45	1006	.51	1040	.57	1076	.62	1136	.74	1200	.87	1260	1.00
2850	1500	888	.32	930	.39	972	.45	1012	.51	1047	.57	1082	.63	1114	.69	1174	.82	1232	.95	1292	1.08
3040	1600	934	.38	975	.44	1017	.51	1055	.57	1090	.64	1124	.70	1154	.77	1213	.90	1270	1.04	1325	1.18
3230	1700	982	.44	1022	.50	1060	.58	1097	.64	1132	.72	1165	.78	1195	.85	1253	.99	1312	1.13	1358	1.28
3420	1800	1029	.50	1068	.58	1104	.65	1140	.72	1176	.79	1208	.87	1239	.94	1296	1.08	1350	1.23	1399	1.38
3610	1900	1079	.57	1116	.65	1152	.72	1185	.80	1218	.88	1252	.96	1281	1.04	1337	1.19	1390	1.34	1441	1.50
3800	2000	1128	.64	1163	.73	1198	.80	1229	.89	1260	.98	1295	1.05	1324	1.14	1379	1.30	1431	1.46	1479	1.63
3990	2100	1178	.72	1211	.82	1244	.90	1276	.99	1306	1.08	1339	1.16	1368	1.24	1422	1.40	1473	1.59	1518	1.76
4180	2200	1227	.81	1258	.92	1291	1.01	1322	1.09	1350	1.18	1378	1.28	1410	1.36	1465	1.54	1514	1.72	1561	1.90
4370	2300	1277	.90	1308	1.02	1339	1.11	1368	1.21	1397	1.30	1422	1.40	1454	1.49	1508	1.67	1558	1.86	1602	2.06
4560	2400	1324	1.04	1357	1.13	1386	1.23	1415	1.32	1443	1.42	1468	1.53	1496	1.62	1549	1.81	1602	2.01	1645	2.21
4750	2500	1372	1.18	1406	1.24	1435	1.36	1463	1.45	1490	1.55	1515	1.67	1541	1.77	1594	1.96	1644	2.18	1690	2.37
4940	2600	1422	1.32	1457	1.36	1484	1.49	1511	1.59	1538	1.69	1563	1.80	1588	1.91	1639	2.12	1684	2.34	1732	2.55
5130	2700	1475	1.39	1506	1.49	1531	1.64	1558	1.74	1584	1.78	1609	1.96	1634	2.06	1684	2.28	1728	2.50	1776	2.74
5320	2800	1527	1.49	1555	1.61	1582	1.78	1607	1.90	1633	1.93	1655	2.13	1680	2.23	1725	2.47	1773	2.69	1814	2.94
5510	2900	1580	1.59	1602	1.83	1631	1.92	1656	2.07	1680	2.18	1703	2.31	1728	2.40	1771	2.66	1816	2.90	1859	3.13
5700	3000	1632	1.67	1650	2.06	1682	2.09	1703	2.25	1727	2.37	1751	2.49	1774	2.61	1818	2.85	1860	3.11	1900	3.33
5890	3100	1685	1.78	1699	2.25	1731	2.26	1752	2.43	1774	2.58	1800	2.67	1820	2.82	1865	3.06	1905	3.33	1945	3.57
6080	3200	1737	1.89	1750	2.42	1780	2.46	1803	2.61	1824	2.76	1847	2.89	1868	3.03	1910	3.29	1951	3.55	1990	3.82



CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	1400	1322	1.13	1376	1.28	1429	1.43	1525	1.74	1623	2.06	1716	2.40	1807	2.76	1924	3.13	2002	3.50	2091	3.87
2850	1500	1350	1.22	1406	1.37	1459	1.52	1550	1.84	1644	2.17	1736	2.53	1826	2.89	1928	3.25	2006	3.66	2094	4.05
3040	1600	1385	1.32	1436	1.47	1489	1.62	1582	1.95	1671	2.29	1758	2.66	1842	3.02	1934	3.38	2015	3.80	2097	4.22
3230	1700	1414	1.42	1468	1.57	1518	1.73	1615	2.07	1700	2.41	1783	2.79	1862	3.16	1944	3.57	2026	3.98	2099	4.39
3420	1800	1448	1.54	1501	1.69	1547	1.86	1646	2.19	1730	2.55	1813	2.93	1888	3.31	1967	3.72	2044	4.14	2115	4.58
3610	1900	1487	1.66	1533	1.82	1581	1.99	1676	2.33	1761	2.69	1846	3.08	1917	3.47	1987	3.89	2066	4.32	2138	4.76
3800	2000	1526	1.79	1569	1.96	1613	2.13	1706	2.48	1791	2.84	1874	3.24	1947	3.64	2021	4.07	2089	4.50	2165	4.95
3990	2100	1565	1.93	1609	2.10	1651	2.28	1737	2.65	1823	3.02	1905	3.41	1978	3.82	2055	4.26	2122	4.70	2190	5.15
4180	2200	1608	2.08	1650	2.26	1691	2.43	1770	2.82	1853	3.20	1934	3.60	2006	4.01	2087	4.46	2156	4.90	2213	5.37
4370	2300	1647	2.23	1692	2.42	1733	2.61	1808	3.00	1882	3.40	1967	3.81	2038	4.22	2117	4.68	2185	5.13	2247	5.60
4560	2400	1689	2.41	1732	2.60	1773	2.79	1848	3.19	1918	3.60	2000	4.02	2073	4.44	2146	4.89	2218	5.36	2277	5.84
4750	2500	1731	2.58	1774	2.78	1811	2.99	1890	3.39	1959	3.81	2031	4.24	2101	4.67	2176	5.13	2244	5.60	2307	6.08
4940	2600	1775	2.76	1815	2.98	1853	3.19	1929	3.61	2003	4.03	2068	4.48	2132	4.93	2206	5.39	2274	5.86	2337	6.36
5130	2700	1818	2.96	1858	3.19	1896	3.39	1969	3.83	2041	4.28	2108	4.72	2168	5.19	2239	5.66	2309	6.14	2365	6.64
5320	2800	1861	3.16	1900	3.39	1938	3.62	2012	4.06	2082	4.52	2149	4.98	2206	5.46	2272	5.95	2338	6.43	2397	6.93
5510	2900	1904	3.37	1945	3.60	1982	3.85	2051	4.32	2119	4.79	2189	5.26	2249	5.74	2307	6.25	2373	6.74	2431	7.25
5700	3000	1943	3.61	1988	3.82	2024	4.08	2094	4.58	2160	5.06	2226	5.55	2290	6.02	2348	6.55	2408	7.06	2460	7.59
5890	3100	1987	3.87	2029	4.08	2067	4.34	2135	4.85	2200	5.37	2265	5.85	2328	6.36	2390	6.86	2446	7.39	2495	7.95
6080	3200	2031	4.10	2073	4.32	2111	4.59	2180	5.11	2243	5.66	2309	6.16	2369	6.67	2430	7.19	2490	7.72	2530	8.31
6270	3300	2075	4.34	2115	4.59	2154	4.85	2222	5.42	2285	5.96	2349	6.49	2409	7.00	2467	7.56	2530	8.08	2577	8.66
6460	3400	2118	4.62	2157	4.86	2194	5.16	2264	5.72	2326	6.29	2390	6.83	2448	7.35	2506	7.94	2567	8.48	2619	9.04
6650	3500	2165	4.88	2200	5.17	2237	5.46	2309	6.02	2370	6.62	2433	7.18	2489	7.73	2547	8.31	2605	8.86		
6840	3600	2208	5.19	2245	5.48	2280	5.77	2352	6.35	2414	6.95	2477	7.54	2531	8.13	2589	8.69	2645	9.29		
7220	3800	2304	5.77	2335	6.12	2369	6.42	2436	7.05	2502	7.66	2563	8.27	2615	8.93	2671	9.54				
7600	4000	2396	6.45	2430	6.76	2458	7.15	2519	7.83	2589	8.50	2649	9.09	2704	9.76						

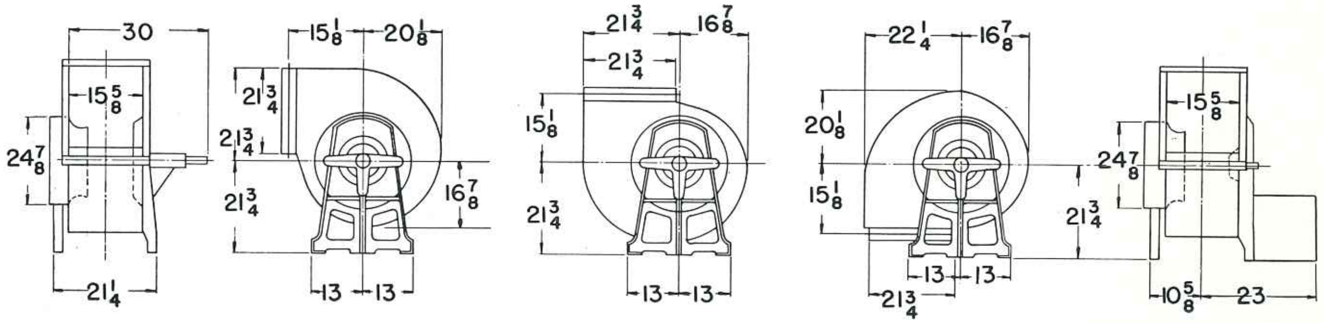
Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 400 Buffalo Single Inlet Limit-Load Type "BL" Fans SIZE 400

REG. U.S. PAT. OFF.

Wheel Diameter 20". Limit Load H.P. $= .800 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 2.30 sq. ft. inside.

CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	800	527	.12	578	.16	631	.20	679	.24	722	.29	764	.35	806	.40	879	.52	960	.64	1031	.76
2070	900	565	.14	615	.18	660	.23	705	.28	751	.32	793	.38	826	.44	897	.56	968	.68	1038	.82
2300	1000	604	.17	652	.22	698	.26	736	.32	778	.37	819	.43	852	.49	921	.61	991	.74	1051	.89
2530	1100	643	.20	691	.26	734	.31	773	.37	808	.42	846	.48	882	.54	949	.67	1013	.80	1073	.95
2760	1200	683	.24	730	.30	770	.36	808	.42	842	.48	877	.54	913	.60	980	.73	1039	.88	1098	1.02
2990	1300	725	.29	768	.35	809	.42	845	.48	880	.54	912	.60	944	.67	1006	.80	1068	.95	1123	1.11
3220	1400	767	.34	808	.41	849	.48	883	.54	918	.61	949	.68	982	.74	1037	.89	1095	1.05	1150	1.20
3450	1500	810	.38	849	.47	887	.54	923	.61	955	.68	987	.76	1012	.83	1071	.98	1124	1.14	1179	1.30
3680	1600	852	.47	890	.53	928	.61	963	.68	995	.77	1026	.84	1053	.92	1107	1.08	1159	1.25	1209	1.42
3910	1700	896	.53	933	.60	967	.70	1001	.77	1033	.86	1063	.94	1090	1.02	1143	1.19	1197	1.35	1239	1.54
4140	1800	939	.60	975	.70	1007	.78	1040	.86	1073	.95	1102	1.05	1131	1.13	1183	1.30	1232	1.48	1277	1.66
4370	1900	985	.68	1018	.78	1051	.86	1081	.96	1111	1.06	1142	1.15	1169	1.25	1220	1.43	1268	1.61	1315	1.80
4600	2000	1029	.77	1061	.88	1093	.96	1121	1.07	1150	1.18	1182	1.26	1208	1.37	1258	1.56	1306	1.75	1350	1.96
4830	2100	1075	.86	1105	.98	1135	1.08	1164	1.19	1192	1.30	1222	1.39	1248	1.49	1298	1.68	1344	1.91	1385	2.11
5060	2200	1120	.97	1148	1.11	1178	1.21	1206	1.31	1233	1.42	1257	1.54	1287	1.63	1337	1.84	1382	2.07	1424	2.28
5290	2300	1165	1.08	1194	1.23	1222	1.33	1248	1.45	1275	1.56	1298	1.68	1327	1.79	1376	2.01	1422	2.23	1462	2.47
5520	2400	1208	1.25	1238	1.36	1265	1.48	1291	1.59	1317	1.71	1340	1.84	1365	1.95	1413	2.17	1462	2.41	1501	2.65
5750	2500	1252	1.42	1283	1.49	1309	1.63	1335	1.74	1360	1.86	1382	2.01	1406	2.13	1455	2.35	1500	2.62	1542	2.85
5980	2600	1298	1.59	1330	1.63	1354	1.79	1379	1.91	1403	2.03	1426	2.16	1449	2.29	1496	2.55	1537	2.81	1580	3.06
6210	2700	1346	1.67	1374	1.79	1397	1.97	1422	2.09	1445	2.14	1468	2.35	1491	2.47	1537	2.74	1577	3.00	1621	3.29
6440	2800	1393	1.79	1419	1.93	1444	2.14	1466	2.28	1490	2.32	1510	2.56	1533	2.68	1574	2.97	1618	3.23	1655	3.53
6670	2900	1442	1.91	1462	2.20	1488	2.31	1511	2.49	1533	2.62	1554	2.77	1577	2.88	1616	3.20	1657	3.48	1696	3.76
6900	3000	1489	2.01	1506	2.47	1535	2.51	1554	2.70	1576	2.85	1598	2.99	1619	3.14	1659	3.42	1697	3.74	1734	4.00
7130	3100	1538	2.14	1550	2.70	1580	2.71	1599	2.92	1619	3.10	1643	3.21	1661	3.39	1702	3.68	1738	4.00	1775	4.29
7360	3200	1585	2.27	1597	2.91	1624	2.95	1645	3.14	1664	3.32	1685	3.47	1705	3.64	1743	3.95	1780	4.26	1816	4.59



CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3220	1400	1206	1.36	1256	1.54	1304	1.72	1392	2.09	1481	2.47	1566	2.88	1649	3.32	1756	3.76	1827	4.20	1908	4.65
3450	1500	1232	1.47	1283	1.65	1331	1.83	1414	2.21	1500	2.61	1584	3.04	1666	3.47	1759	3.90	1830	4.40	1911	4.86
3680	1600	1264	1.59	1310	1.77	1359	1.95	1444	2.34	1525	2.75	1604	3.20	1681	3.63	1765	4.06	1839	4.56	1914	5.07
3910	1700	1290	1.71	1340	1.89	1385	2.08	1474	2.49	1551	2.89	1627	3.35	1699	3.80	1774	4.29	1849	4.78	1915	5.27
4140	1800	1321	1.85	1370	2.03	1412	2.23	1502	2.63	1579	3.06	1654	3.52	1723	3.98	1795	4.47	1865	4.97	1930	5.50
4370	1900	1357	1.99	1399	2.19	1443	2.39	1529	2.80	1607	3.23	1684	3.70	1749	4.17	1813	4.67	1885	5.19	1951	5.72
4600	2000	1392	2.15	1432	2.35	1472	2.56	1557	2.98	1634	3.41	1710	3.89	1777	4.37	1844	4.89	1906	5.41	1976	5.95
4830	2100	1428	2.32	1468	2.52	1507	2.74	1585	3.18	1663	3.63	1738	4.10	1805	4.59	1875	5.12	1936	5.65	1998	6.19
5060	2200	1467	2.50	1506	2.71	1543	2.92	1615	3.39	1691	3.84	1765	4.32	1830	4.82	1904	5.36	1967	5.89	2019	6.45
5290	2300	1503	2.68	1544	2.91	1581	3.14	1650	3.60	1717	4.08	1795	4.58	1860	5.07	1932	5.62	1994	6.16	2050	6.73
5520	2400	1541	2.89	1580	3.12	1618	3.35	1686	3.83	1750	4.32	1825	4.83	1892	5.33	1958	5.87	2024	6.44	2078	7.02
5750	2500	1580	3.10	1619	3.34	1653	3.59	1725	4.07	1788	4.58	1853	5.09	1917	5.61	1986	6.16	2047	6.73	2105	7.30
5980	2600	1620	3.32	1656	3.58	1691	3.83	1760	4.34	1828	4.84	1887	5.38	1945	5.92	2013	6.47	2075	7.04	2133	7.64
6210	2700	1659	3.56	1695	3.83	1730	4.07	1797	4.60	1862	5.14	1924	5.67	1978	6.23	2043	6.80	2107	7.38	2158	7.98
6440	2800	1698	3.80	1734	4.07	1768	4.35	1836	4.88	1900	5.43	1961	5.98	2013	6.56	2073	7.15	2133	7.72	2187	8.32
6670	2900	1737	4.05	1775	4.32	1809	4.62	1872	5.19	1934	5.75	1997	6.32	2052	6.89	2105	7.51	2165	8.10	2218	8.71
6900	3000	1773	4.34	1814	4.59	1847	4.90	1911	5.50	1971	6.08	2031	6.67	2090	7.23	2143	7.87	2197	8.48	2245	9.12
7130	3100	1813	4.65	1815	4.90	1886	5.21	1948	5.83	2008	6.45	2067	7.03	2124	7.64	2181	8.24	2232	8.88	2277	9.55
7360	3200	1853	4.92	1892	5.19	1926	5.51	1989	6.14	2047	6.80	2107	7.40	2162	8.01	2217	8.64	2272	9.27	2309	9.98
7590	3300	1893	5.21	1930	5.51	1966	5.83	2028	6.51	2085	7.16	2143	7.80	2198	8.41	2251	9.08	2309	9.71	2352	10.4
7820	3400	1933	5.55	1968	5.84	2002	6.20	2066	6.87	2122	7.56	2181	8.20	2234	8.83	2287	9.54	2342	10.2	2390	10.9
8050	3500	1976	5.86	2008	6.21	2041	6.56	2107	7.23	2163	7.95	2220	8.62	2271	9.29	2324	9.98	2377	10.6		
8280	3600	2015	6.23	2049	6.58	2081	6.93	2146	7.63	2203	8.35	2260	9.06	2310	9.77	2362	10.4	2414	11.2		
8740	3800	2102	6.93	2131	7.35	2162	7.71	2223	8.47	2283	9.20	2339	9.93	2386	10.7	2437	11.5				
9200	4000	2186	7.75	2217	8.12	2243	8.59	2299	9.41	2362	10.2	2417	10.9	2467	11.7						

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 445

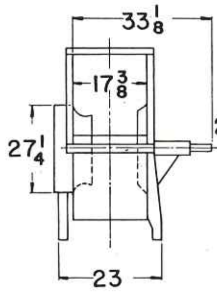
Buffalo Single Inlet Limit-Load Type "BL" Fans

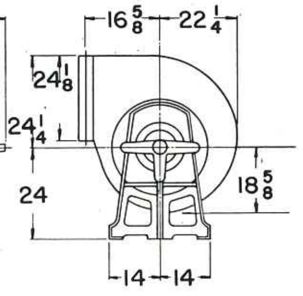
REG. U.S. PAT. OFF.

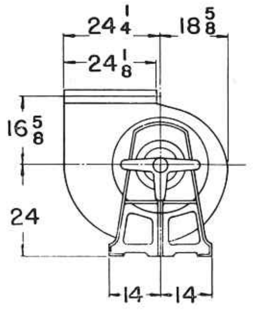
SIZE 445

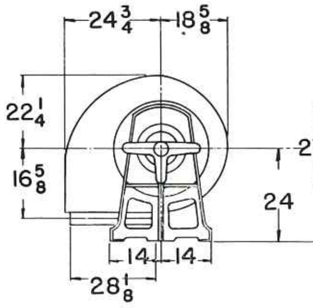
Wheel Diameter 22¼". Limit Load H.P. = $1.36 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 2.83 sq. ft. inside.

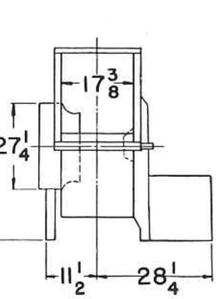
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2264	800	473	.15	519	.19	567	.25	610	.30	649	.36	687	.43	724	.49	790	.64	863	.79	927	.94
2547	900	508	.18	553	.22	593	.28	634	.34	675	.40	713	.48	742	.55	806	.70	870	.85	933	1.01
2830	1000	543	.21	586	.27	627	.33	662	.40	700	.46	737	.53	766	.61	828	.76	891	.92	945	1.10
3113	1100	578	.25	621	.33	659	.39	695	.46	726	.52	760	.59	793	.67	853	.83	910	1.00	965	1.17
3396	1200	614	.30	656	.37	692	.45	727	.52	757	.59	788	.67	821	.74	881	.91	934	1.08	987	1.26
3679	1300	651	.36	691	.43	728	.52	760	.59	791	.67	819	.74	848	.83	905	1.00	960	1.17	1010	1.37
3962	1400	689	.42	726	.51	763	.59	794	.67	825	.76	853	.85	883	.92	932	1.10	984	1.29	1033	1.49
4245	1500	728	.48	763	.58	797	.67	830	.76	859	.85	887	.94	914	1.03	963	1.22	1010	1.41	1060	1.60
4528	1600	766	.56	800	.65	834	.76	865	.85	894	.95	922	1.04	947	1.14	995	1.34	1042	1.55	1087	1.75
4811	1700	805	.65	838	.74	869	.86	900	.95	928	1.07	956	1.16	980	1.26	1028	1.47	1076	1.68	1114	1.90
5094	1800	844	.74	876	.86	906	.97	935	1.07	965	1.17	991	1.29	1016	1.40	1063	1.60	1107	1.83	1147	2.05
5377	1900	885	.85	915	.97	945	1.07	972	1.19	999	1.31	1027	1.43	1051	1.55	1097	1.77	1140	1.99	1182	2.23
5660	2000	925	.95	954	1.08	983	1.19	1008	1.32	1033	1.46	1062	1.56	1086	1.69	1131	1.93	1174	2.17	1213	2.42
5943	2100	966	1.07	993	1.22	1020	1.34	1047	1.47	1071	1.60	1098	1.72	1122	1.84	1166	2.08	1208	2.36	1245	2.62
6226	2200	1006	1.20	1032	1.37	1059	1.50	1084	1.62	1107	1.75	1130	1.90	1156	2.02	1202	2.29	1242	2.56	1280	2.82
6509	2300	1047	1.34	1073	1.52	1098	1.65	1122	1.80	1146	1.93	1166	2.08	1193	2.21	1237	2.48	1278	2.76	1314	3.06
6792	2400	1086	1.55	1113	1.68	1137	1.83	1161	1.96	1184	2.11	1204	2.27	1227	2.41	1270	2.69	1314	2.99	1349	3.28
7075	2500	1125	1.75	1153	1.84	1177	2.02	1200	2.15	1222	2.30	1243	2.48	1264	2.63	1307	2.91	1348	3.24	1386	3.52
7358	2600	1166	1.96	1195	2.02	1217	2.21	1239	2.36	1261	2.51	1282	2.67	1302	2.84	1344	3.15	1381	3.48	1421	3.79
7641	2700	1210	2.07	1235	2.21	1256	2.44	1278	2.59	1299	2.65	1320	2.91	1340	3.06	1381	3.39	1417	3.72	1457	4.07
7924	2800	1252	2.17	1275	2.39	1298	2.65	1318	2.82	1339	2.87	1357	3.17	1378	3.31	1415	3.67	1454	4.00	1488	4.37
8207	2900	1296	2.36	1314	2.72	1338	2.85	1358	3.07	1378	3.24	1397	3.43	1417	3.57	1453	3.95	1489	4.31	1525	4.65
8490	3000	1339	2.48	1353	3.06	1380	3.11	1397	3.34	1416	3.52	1436	3.70	1455	3.88	1491	4.24	1526	4.62	1558	4.95
8773	3100	1382	2.65	1394	3.34	1420	3.36	1437	3.61	1455	3.83	1476	3.97	1493	4.19	1530	4.55	1562	4.95	1595	5.31
9056	3200	1425	2.81	1435	3.60	1460	3.66	1479	3.88	1496	4.10	1515	4.29	1532	4.50	1567	4.89	1600	5.28	1632	5.68











CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3962	1400	1084	1.68	1129	1.90	1172	2.12	1251	2.59	1331	3.06	1407	3.57	1482	4.10	1578	4.65	1642	5.20	1699	5.75
4245	1500	1107	1.81	1153	2.04	1197	2.26	1271	2.73	1348	3.22	1424	3.76	1498	4.29	1581	4.83	1645	5.44	1717	6.02
4528	1600	1136	1.96	1178	2.18	1221	2.41	1298	2.90	1371	3.40	1442	3.95	1511	4.49	1586	5.02	1653	5.65	1720	6.27
4811	1700	1160	2.11	1204	2.33	1245	2.57	1325	3.08	1394	3.58	1462	4.15	1527	4.70	1594	5.31	1662	5.91	1722	6.52
5094	1800	1188	2.29	1231	2.51	1269	2.76	1350	3.25	1419	3.79	1487	4.35	1549	4.92	1613	5.53	1676	6.15	1735	6.81
5377	1900	1220	2.47	1257	2.70	1297	2.96	1375	3.46	1444	4.00	1514	4.58	1572	5.16	1630	5.78	1695	6.42	1754	7.07
5660	2000	1252	2.66	1287	2.91	1323	3.17	1399	3.69	1469	4.22	1537	4.81	1597	5.41	1658	6.05	1713	6.69	1776	7.36
5943	2100	1284	2.87	1320	3.12	1354	3.39	1425	3.94	1495	4.49	1562	5.07	1622	5.68	1686	6.33	1740	6.98	1796	7.65
6226	2200	1319	3.09	1353	3.36	1387	3.61	1452	4.19	1520	4.76	1586	5.35	1645	5.96	1712	6.63	1768	7.28	1815	7.98
6509	2300	1351	3.31	1388	3.60	1421	3.88	1483	4.46	1544	5.05	1613	5.66	1672	6.27	1736	6.95	1792	7.62	1843	8.32
6792	2400	1385	3.58	1421	3.86	1454	4.15	1516	4.74	1573	5.35	1640	5.97	1700	6.60	1760	7.27	1819	7.96	1868	8.68
7075	2500	1420	3.83	1455	4.13	1485	4.44	1550	5.04	1607	5.66	1666	6.30	1723	6.94	1785	7.62	1841	8.32	1892	9.03
7358	2600	1456	4.10	1489	4.43	1520	4.74	1582	5.36	1643	5.99	1696	6.66	1749	7.33	1809	8.01	1865	8.71	1917	9.45
7641	2700	1491	4.40	1524	4.74	1555	5.04	1615	5.69	1674	6.36	1729	7.01	1778	7.71	1836	8.41	1894	9.12	1940	9.87
7924	2800	1526	4.70	1558	5.04	1590	5.38	1650	6.03	1708	6.72	1763	7.40	1809	8.11	1863	8.84	1918	9.55	1966	10.3
8207	2900	1562	5.01	1595	5.35	1626	5.72	1682	6.42	1738	7.12	1795	7.82	1845	8.53	1892	9.29	1946	10.0	1994	10.8
8490	3000	1594	5.36	1631	5.68	1660	6.06	1717	6.81	1772	7.52	1826	8.25	1878	8.95	1926	9.73	1975	10.5	2018	11.3
8773	3100	1630	5.75	1664	6.06	1695	6.45	1751	7.21	1804	7.98	1858	8.69	1909	9.45	1960	10.2	2006	11.0	2046	11.8
9056	3200	1666	6.09	1700	6.42	1731	6.82	1788	7.59	1840	8.41	1894	9.15	1943	9.91	1993	10.7	2042	11.5	2075	12.3
9339	3300	1702	6.45	1735	6.82	1767	7.21	1822	8.05	1874	8.86	1927	9.64	1976	10.4	2023	11.2	2075	12.0	2114	12.9
9622	3400	1737	6.87	1769	7.22	1800	7.67	1857	8.50	1908	9.35	1960	10.1	2008	10.9	2055	11.8	2105	12.6	2148	13.4
9905	3500	1776	7.25	1804	7.68	1835	8.11	1894	8.95	1944	9.84	1996	10.7	2041	11.5	2089	12.3	2137	13.2		
10188	3600	1811	7.71	1841	8.14	1870	8.57	1929	9.44	1980	10.3	2032	11.2	2076	12.1	2123	12.9	2169	13.8		
10754	3800	1890	8.57	1915	9.09	1943	9.54	1998	10.5	2052	11.4	2102	12.3	2145	13.3	2191	14.2				
11320	4000	1965	9.58	1993	10.0	2016	10.6	2066	11.6	2123	12.6	2173	13.5	2218	14.5						

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 490

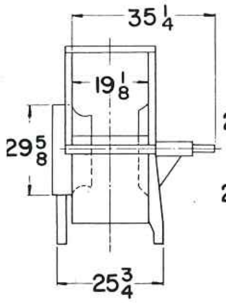
Buffalo Single Inlet Limit-Load Type "BL" Fans

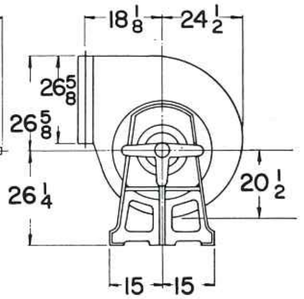
REG. U.S. PAT. OFF.

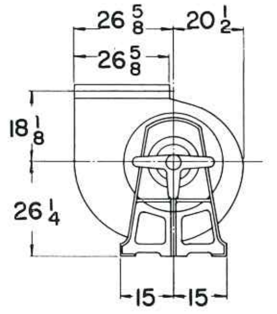
SIZE 490

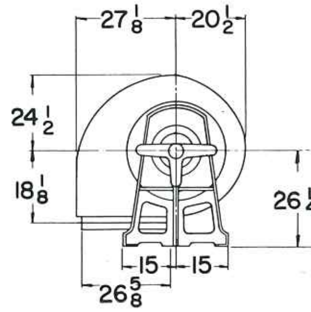
Wheel Diameter 24½". Limit Load H.P. = $2.21 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 3.45 sq. ft. inside.

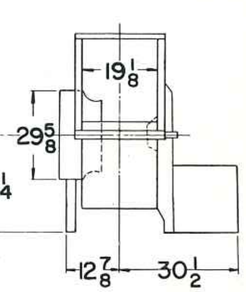
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2,760	800	430	.18	472	.23	515	.31	554	.36	589	.43	623	.52	658	.59	717	.77	784	.96	842	1.14
3,105	900	461	.22	502	.27	539	.34	576	.41	613	.49	647	.58	674	.67	732	.85	790	1.03	848	1.23
3,450	1000	493	.25	533	.32	570	.40	601	.49	635	.56	669	.65	696	.74	752	.92	809	1.12	858	1.33
3,795	1100	525	.31	564	.40	599	.47	631	.56	659	.63	690	.72	720	.81	775	1.01	827	1.21	876	1.42
4,140	1200	557	.36	596	.45	629	.54	660	.63	688	.72	716	.81	746	.90	800	1.10	848	1.32	896	1.53
4,485	1300	591	.43	627	.52	661	.63	690	.72	718	.81	744	.90	770	1.01	822	1.21	872	1.42	917	1.66
4,830	1400	626	.50	659	.61	693	.72	721	.81	749	.92	775	1.03	802	1.12	846	1.33	894	1.57	939	1.80
5,175	1500	661	.58	692	.70	724	.81	754	.92	780	1.03	806	1.14	830	1.24	875	1.48	918	1.71	962	1.95
5,520	1600	696	.68	726	.79	758	.92	786	1.03	812	1.15	837	1.26	860	1.39	904	1.62	946	1.87	987	2.13
5,865	1700	731	.79	761	.90	790	1.05	817	1.15	843	1.30	868	1.41	890	1.53	933	1.78	977	2.04	1012	2.31
6,210	1800	767	.90	796	1.05	822	1.17	849	1.30	876	1.42	900	1.57	923	1.69	965	1.95	1006	2.22	1042	2.49
6,555	1900	804	1.03	831	1.17	858	1.30	883	1.44	907	1.59	933	1.73	954	1.87	996	2.14	1035	2.42	1073	2.70
6,900	2000	840	1.15	866	1.32	892	1.44	915	1.60	939	1.77	965	1.89	986	2.05	1027	2.34	1066	2.63	1102	2.94
7,245	2100	877	1.30	902	1.48	927	1.62	950	1.78	973	1.95	997	2.09	1019	2.23	1059	2.52	1097	2.87	1131	3.17
7,590	2200	914	1.46	937	1.66	962	1.82	985	1.96	1006	2.13	1026	2.31	1050	2.45	1091	2.78	1128	3.10	1163	3.42
7,935	2300	951	1.62	974	1.84	997	2.00	1019	2.18	1041	2.34	1059	2.52	1083	2.69	1123	3.01	1161	3.35	1193	3.71
8,280	2400	986	1.87	1011	2.04	1032	2.22	1054	2.38	1075	2.56	1094	2.76	1114	2.92	1154	3.26	1193	3.62	1225	3.98
8,625	2500	1022	2.13	1047	2.23	1069	2.45	1090	2.61	1110	2.79	1129	3.01	1148	3.19	1187	3.53	1225	3.93	1259	4.27
8,970	2600	1059	2.38	1085	2.45	1105	2.69	1126	2.87	1146	3.05	1164	3.24	1183	3.44	1221	3.82	1254	4.22	1290	4.60
9,315	2700	1099	2.51	1122	2.69	1140	2.96	1161	3.14	1180	3.21	1199	3.53	1217	3.71	1254	4.11	1287	4.51	1323	4.94
9,660	2800	1137	2.69	1158	2.90	1178	3.21	1197	3.42	1216	3.48	1233	3.84	1251	4.02	1285	4.45	1321	4.85	1351	5.30
10,005	2900	1177	2.87	1193	3.30	1215	3.46	1234	3.73	1251	3.93	1269	4.16	1287	4.33	1319	4.79	1353	5.23	1385	5.64
10,350	3000	1216	3.01	1229	3.71	1253	3.77	1269	4.06	1286	4.27	1304	4.49	1321	4.70	1354	5.14	1386	5.61	1415	6.00
10,695	3100	1255	3.21	1266	4.06	1289	4.07	1305	4.38	1321	4.65	1341	4.81	1356	5.08	1389	5.52	1419	6.01	1449	6.43
11,040	3200	1294	3.41	1304	4.36	1326	4.43	1343	4.70	1359	4.97	1376	5.21	1391	5.46	1423	5.93	1453	6.40	1482	6.88











CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4,830	1400	985	2.04	1025	2.31	1064	2.58	1136	3.14	1209	3.71	1278	4.33	1346	4.97	1433	5.64	1491	6.31	1558	6.97
5,175	1500	1006	2.20	1047	2.47	1087	2.74	1155	3.32	1225	3.91	1293	4.56	1360	5.21	1436	5.86	1494	6.60	1560	7.30
5,520	1600	1032	2.38	1070	2.65	1109	2.92	1178	3.52	1245	4.13	1310	4.79	1372	5.44	1441	6.09	1501	6.85	1562	7.61
5,865	1700	1053	2.56	1094	2.83	1131	3.12	1203	3.73	1266	4.34	1328	5.03	1387	5.70	1448	6.43	1509	7.17	1564	7.91
6,210	1800	1079	2.78	1118	3.05	1152	3.36	1226	3.95	1289	4.60	1351	5.28	1406	5.97	1465	6.70	1523	7.46	1575	8.25
6,555	1900	1108	2.99	1142	3.28	1178	3.59	1248	4.20	1312	4.85	1375	5.55	1428	6.25	1480	7.01	1539	7.79	1593	8.58
6,900	2000	1137	3.23	1169	3.53	1202	3.84	1271	4.47	1334	5.12	1396	5.84	1450	6.56	1505	7.34	1556	8.11	1613	8.92
7,245	2100	1166	3.48	1199	3.78	1230	4.11	1294	4.78	1358	5.44	1419	6.15	1473	6.88	1531	7.68	1581	8.47	1631	9.28
7,590	2200	1198	3.75	1229	4.07	1260	4.38	1318	5.08	1380	5.77	1441	6.49	1494	7.23	1555	8.04	1606	8.83	1648	9.68
7,935	2300	1227	4.02	1260	4.36	1291	4.70	1347	5.41	1402	6.13	1465	6.87	1518	7.60	1577	8.43	1628	9.25	1674	10.1
8,280	2400	1258	4.34	1290	4.69	1321	5.03	1377	5.75	1429	6.49	1490	7.25	1544	8.00	1599	8.81	1652	9.66	1696	10.5
8,625	2500	1289	4.65	1321	5.01	1349	5.39	1408	6.11	1459	6.87	1513	7.64	1565	8.42	1621	9.25	1672	10.1	1718	11.0
8,970	2600	1322	4.97	1352	5.37	1380	5.75	1437	6.51	1492	7.26	1540	8.07	1588	8.89	1643	9.71	1694	10.6	1741	11.5
9,315	2700	1354	5.33	1384	5.75	1412	6.11	1467	6.90	1520	7.71	1570	8.51	1615	9.35	1668	10.2	1720	11.1	1762	12.0
9,660	2800	1386	5.70	1415	6.11	1444	6.52	1499	7.32	1551	8.15	1601	8.98	1643	9.84	1692	10.7	1742	11.6	1786	12.5
10,005	2900	1418	6.07	1449	6.49	1476	6.94	1528	7.79	1578	8.63	1631	9.48	1675	10.3	1718	11.3	1768	12.1	1811	13.1
10,350	3000	1447	6.51	1481	6.88	1508	7.35	1560	8.25	1609	9.12	1658	10.0	1706	10.8	1749	11.8	1794	12.7	1832	13.7
10,695	3100	1480	6.97	1511	7.35	1540	7.82	1590	8.73	1640	9.68	1687	10.5	1734	11.5	1780	12.4	1822	13.3	1859	14.3
11,040	3200	1513	7.39	1544	7.79	1572	8.27	1624	9.21	1671	10.2	1720	11.1	1765	12.0	1810	13.0	1855	13.9	1885	15.0
11,385	3300	1546	7.82	1575	8.27	1605	8.74	1655	9.77	1702	10.7	1750	11.7	1794	12.6	1838	13.6	1885	14.6	1920	15.6
11,730	3400	1578	8.33	1607	8.76	1634	9.30	1686	10.3	1733	11.3	1780	12.3	1824	13.2	1867	14.3	1912	15.3	1951	16.3
12,075	3500	1613	8.80	1639	9.32	1666	9.84	1720	10.8	1765	11.9	1812	12.9	1854	13.9	1897	15.0	1940	16.0		
12,420	3600	1645	9.35	1672	9.88	1698	10.4	1752	11.4	1798	12.5	1845	13.6	1885	14.7	1929	15.7	1970	16.7		
13,110	3800	1716	10.4	1739	11.0	1764	11.6	1815	12.7	1864	13.8	1909	14.9	1948	16.1	1990	17.2				
13,800	4000	1785	11.6	1810	12.2	1831	12.9	1876	14.1	1929	15.3	1973	16.4	2014	17.6						

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 540

Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

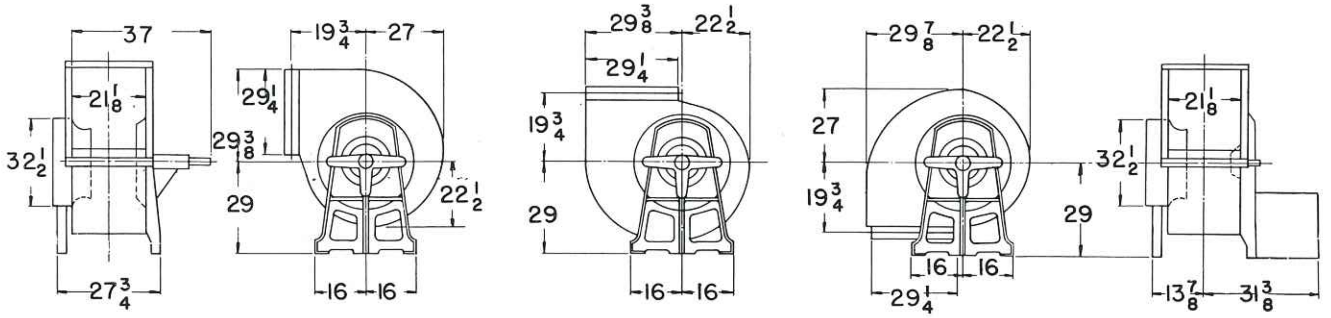
SIZE 540

Wheel Diameter 27″.

Limit Load H.P. = $3.39 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

Outlet Area 4.20 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3,360	800	398	.21	436	.28	473	.35	505	.43	535	.51	564	.60	594	.68	650	.87	704	1.06	754	1.27
3,780	900	428	.26	464	.33	498	.41	527	.50	557	.59	586	.68	611	.77	668	.96	716	1.16	766	1.38
4,200	1000	460	.31	494	.40	525	.48	553	.58	583	.67	610	.76	634	.86	684	1.07	730	1.28	779	1.50
4,620	1100	493	.38	525	.47	554	.56	582	.66	609	.76	636	.86	657	.97	706	1.19	752	1.41	795	1.64
5,040	1200	526	.46	557	.55	584	.65	609	.76	636	.86	662	.97	684	1.08	729	1.31	773	1.55	814	1.80
5,460	1300	559	.55	589	.65	616	.75	639	.87	665	.98	689	1.09	710	1.21	755	1.45	796	1.70	834	1.96
5,880	1400	594	.65	622	.75	647	.86	670	.99	694	1.10	716	1.23	738	1.35	781	1.60	820	1.86	858	2.13
6,300	1500	629	.77	655	.88	679	1.00	701	1.24	724	1.25	746	1.37	766	1.51	807	1.77	846	2.04	882	2.33
6,720	1600	664	.90	688	1.02	712	1.14	733	1.27	755	1.39	776	1.53	796	1.68	835	1.95	873	2.24	908	2.53
7,140	1700	700	1.06	723	1.17	745	1.29	766	1.44	787	1.57	808	1.71	827	1.85	865	2.15	899	2.45	934	2.76
7,560	1800	736	1.22	757	1.35	779	1.47	800	1.61	820	1.76	838	1.90	857	2.06	893	2.36	928	2.67	961	3.00
7,980	1900	772	1.38	793	1.53	813	1.66	832	1.82	853	1.96	871	2.12	888	2.28	924	2.59	957	2.92	989	3.25
8,400	2000	809	1.59	828	1.72	848	1.88	866	2.03	885	2.18	904	2.34	921	2.51	954	2.85	988	3.18	1017	3.53
8,820	2100	845	1.79	864	1.96	882	2.11	900	2.28	919	2.43	937	2.59	953	2.77	986	3.11	1018	3.47	1047	3.83
9,240	2200	882	2.03	900	2.21	918	2.36	934	2.54	953	2.69	970	2.85	986	3.04	1018	3.40	1049	3.77	1079	4.14
9,660	2300	919	2.19	936	2.47	953	2.63	969	2.81	987	2.98	1003	3.17	1018	3.35	1050	3.70	1080	4.08	1110	4.47
10,080	2400	956	2.59	973	2.72	988	2.95	1005	3.10	1022	3.27	1037	3.49	1052	3.66	1084	4.02	1113	4.41	1140	4.83
10,500	2500	993	2.84	1009	3.06	1024	3.26	1039	3.47	1056	3.62	1071	3.81	1085	4.00	1116	4.38	1144	4.79	1172	5.21
10,920	2600	1030	3.18	1046	3.37	1060	3.62	1075	3.80	1091	3.98	1105	4.17	1119	4.37	1149	4.76	1177	5.17	1203	5.62
11,340	2700	1068	3.48	1083	3.73	1097	3.96	1111	4.20	1126	4.35	1140	4.56	1153	4.79	1183	5.16	1210	5.60	1236	6.04
11,760	2800	1105	3.85	1120	4.10	1134	4.33	1147	4.58	1161	4.79	1175	5.00	1188	5.23	1215	5.60	1242	6.05	1269	6.49
12,180	2900	1142	4.27	1157	4.54	1171	4.73	1183	5.04	1197	5.22	1211	5.42	1222	5.67	1250	6.05	1276	6.50	1301	6.97
12,600	3000	1179	4.76	1194	4.95	1207	5.18	1219	5.45	1233	5.66	1246	5.87	1257	6.14	1284	6.54	1309	7.02	1334	7.48
13,020	3100	1217	5.11	1231	5.36	1244	5.65	1256	5.97	1268	6.18	1281	6.43	1293	6.66	1318	7.10	1343	7.52	1367	8.06
13,440	3200	1254	5.67	1268	5.86	1281	6.10	1292	6.50	1305	6.68	1316	6.97	1329	7.15	1353	7.65	1377	8.14	1400	8.63



CFM	Outlet Velocity	2″ S.P.		2 ¼″ S.P.		2 ½″ S.P.		3″ S.P.		3 ½″ S.P.		4″ S.P.		4 ½″ S.P.		5″ S.P.		5 ½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5,880	1400	892	2.41	930	2.70	964	2.99	1032	3.59	1091	4.21	1161	4.87	1219	5.55	1266	6.23	1328	6.98	1375	7.69
6,300	1500	919	2.61	951	2.90	990	3.22	1050	3.84	1107	4.49	1171	5.16	1233	5.86	1280	6.59	1340	7.33	1393	8.10
6,720	1600	941	2.84	975	3.14	1010	3.46	1070	4.11	1128	4.78	1186	5.47	1247	6.19	1298	6.93	1351	7.69	1405	8.50
7,140	1700	969	3.06	999	3.39	1030	3.72	1091	4.40	1148	5.09	1207	5.80	1262	6.53	1312	7.30	1367	8.09	1421	8.87
7,560	1800	993	3.33	1026	3.65	1059	3.98	1114	4.69	1171	5.42	1224	6.15	1281	6.91	1330	7.69	1382	8.49	1432	9.32
7,980	1900	1022	3.59	1052	3.94	1083	4.28	1140	5.01	1194	5.76	1243	6.53	1299	7.30	1349	8.10	1400	8.93	1450	9.76
8,400	2000	1050	3.87	1078	4.24	1107	4.61	1165	5.35	1219	6.11	1268	6.91	1319	7.73	1367	8.54	1420	9.38	1466	10.2
8,820	2100	1077	4.18	1107	4.55	1137	4.92	1192	5.70	1241	6.54	1293	7.31	1339	8.15	1389	8.99	1440	9.87	1483	10.8
9,240	2200	1107	4.51	1135	4.90	1163	5.28	1217	6.07	1266	6.88	1320	7.74	1363	8.60	1412	9.48	1460	10.4	1504	11.3
9,660	2300	1136	4.87	1164	5.27	1194	5.64	1246	6.47	1294	7.32	1342	8.18	1387	9.08	1432	9.98	1481	10.9	1525	11.8
10,080	2400	1168	5.23	1194	5.65	1221	6.06	1272	6.90	1319	7.79	1368	8.65	1411	9.57	1454	10.5	1504	11.4	1546	12.4
10,500	2500	1192	5.64	1224	6.05	1250	6.48	1305	7.31	1348	8.24	1396	9.15	1438	10.1	1480	11.0	1527	12.0	1567	13.0
10,920	2600	1229	6.06	1255	6.48	1281	6.91	1330	7.82	1375	8.75	1422	9.66	1465	10.6	1507	11.6	1553	12.6	1591	13.6
11,340	2700	1262	6.47	1285	6.94	1310	7.39	1359	8.31	1410	9.22	1449	10.2	1494	11.2	1532	12.2	1575	13.2	1614	14.3
11,760	2800	1292	6.97	1316	7.45	1340	7.90	1389	8.82	1432	9.82	1476	10.8	1521	11.8	1563	12.8	1600	13.9	1638	14.9
12,180	2900	1326	7.44	1348	7.94	1374	8.39	1420	9.36	1460	10.4	1506	11.4	1548	12.4	1586	13.5	1624	14.6	1665	15.6
12,600	3000	1357	7.99	1381	8.48	1403	8.96	1448	9.97	1492	11.0	1535	12.0	1575	13.1	1613	14.2	1651	15.2	1690	16.3
13,020	3100	1391	8.52	1414	9.02	1434	9.55	1478	10.6	1520	11.7	1564	12.7	1603	13.8	1643	14.9	1679	16.0	1716	17.1
13,440	3200	1425	9.08	1445	9.65	1468	10.1	1510	11.2	1551	12.3	1592	13.4	1632	14.5	1671	15.6	1706	16.8	1744	17.9
13,860	3300	1457	9.71	1478	10.3	1501	10.8	1542	11.9	1583	13.0	1622	14.1	1661	15.2	1697	16.4	1735	17.6	1774	18.7
14,280	3400	1491	10.4	1512	10.9	1534	11.4	1581	12.4	1613	13.7	1654	14.8	1691	16.0	1730	17.2	1765	18.3	1799	19.6
14,700	3500	1523	11.1	1546	11.6	1568	12.1	1606	13.3	1646	14.5	1685	15.6	1720	16.9	1757	18.0	1795	19.2		
15,120	3600	1558	11.8	1579	12.3	1599	12.9	1640	14.1	1676	15.3	1714	16.5	1751	18.0	1786	18.9	1822	20.2		
15,960	3800	1625	13.4	1645	13.9	1666	14.5	1706	15.6	1741	17.0	1778	18.2	1811	19.6						
16,800	4000	1694	15.1	1713	15.7	1734	16.2	1770	17.5	1806	18.8										

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 600

Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

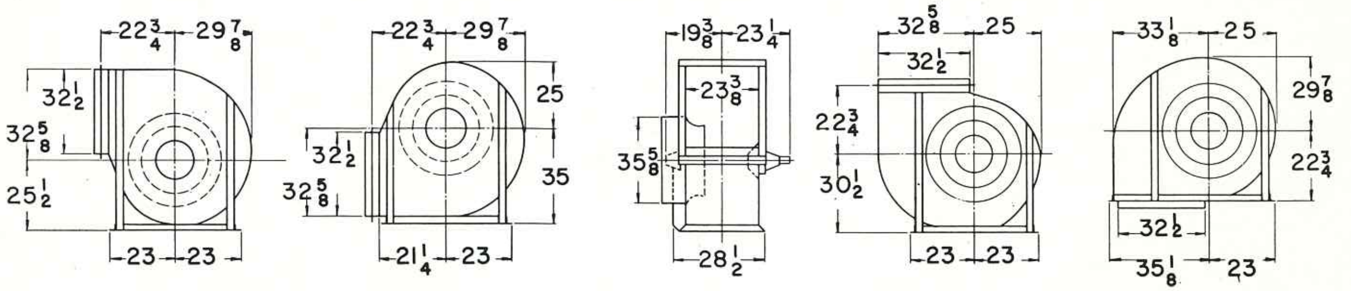
SIZE 600

Wheel Diameter 30″.

Limit Load H.P. = $6.31 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

Outlet Area 5.15 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4,120	800	342	.25	377	.34	408	.43	438	.52	465	.62	495	.72	521	.83	573	1.06	622	1.30	665	1.54
4,635	900	366	.31	400	.41	429	.50	458	.61	484	.71	511	.82	535	.93	582	1.17	629	1.42	671	1.68
5,150	1000	391	.37	424	.47	452	.59	478	.70	504	.81	528	.93	553	1.05	597	1.29	639	1.56	679	1.83
5,665	1100	415	.45	448	.56	476	.68	501	.80	524	.92	549	1.05	572	1.17	615	1.43	655	1.71	691	2.00
6,180	1200	444	.52	474	.65	500	.78	524	.91	547	1.05	570	1.18	591	1.31	633	1.59	671	1.87	708	2.18
6,695	1300	474	.63	498	.76	524	.90	547	1.04	572	1.18	592	1.32	613	1.47	653	1.76	689	2.06	727	2.36
7,210	1400	501	.75	526	.88	550	1.03	573	1.18	596	1.32	615	1.47	635	1.63	673	1.95	708	2.27	745	2.59
7,725	1500	529	.88	555	1.01	576	1.18	598	1.34	620	1.49	639	1.65	659	1.81	696	2.14	730	2.48	764	2.83
8,240	1600	559	1.03	582	1.16	603	1.34	625	1.50	644	1.67	665	1.84	684	2.00	718	2.35	752	2.71	785	3.08
8,755	1700	589	1.20	610	1.33	631	1.49	652	1.69	670	1.87	689	2.05	708	2.22	742	2.59	774	2.96	807	3.35
9,270	1800	618	1.38	638	1.54	659	1.69	678	1.88	696	2.08	714	2.26	733	2.46	768	2.84	798	3.22	828	3.62
9,785	1900	648	1.57	667	1.76	687	1.91	706	2.09	723	2.31	741	2.51	757	2.71	792	3.10	823	3.50	851	3.92
10,300	2000	678	1.80	696	2.00	714	2.18	734	2.33	751	2.55	768	2.76	784	2.98	817	3.39	848	3.81	876	4.23
10,815	2100	708	2.04	725	2.25	744	2.44	761	2.59	779	2.79	794	3.04	810	3.26	842	3.71	872	4.15	900	4.59
11,330	2200	739	2.31	756	2.53	773	2.72	788	2.89	805	3.10	821	3.32	837	3.57	867	4.03	896	4.49	924	4.96
11,845	2300	769	2.62	786	2.81	802	3.04	817	3.22	833	3.42	849	3.62	863	3.95	893	4.38	920	4.87	949	5.36
12,360	2400	799	2.96	816	3.13	831	3.37	846	3.59	861	3.79	877	3.98	891	4.22	918	4.76	947	5.26	974	5.77
12,875	2500	831	3.30	845	3.48	861	3.72	876	3.96	890	4.18	905	4.37	919	4.60	946	5.16	972	5.65	999	6.21
13,390	2600	862	3.65	876	3.84	891	4.11	905	4.34	919	4.58	932	4.82	947	5.00	974	5.57	999	6.11	1025	6.66
13,905	2700	894	4.00	907	4.21	922	4.52	934	4.81	947	5.02	960	5.27	974	5.47	1001	5.98	1026	6.57	1050	7.16
14,420	2800	925	4.36	937	4.65	952	5.06	964	5.25	977	5.50	989	5.73	1003	5.99	1029	6.44	1054	7.09	1077	7.64
14,935	2900	957	4.76	969	5.13	981	5.40	993	5.73	1006	6.00	1018	6.20	1031	6.49	1056	6.95	1081	7.57	1104	8.19
15,450	3000	988	5.26	999	5.65	1011	5.91	1023	6.21	1035	6.53	1049	6.68	1060	7.09	1084	7.57	1109	8.06	1131	8.81
15,960	3100	1018	5.75	1029	6.17	1041	6.46	1054	6.72	1066	7.09	1078	7.30	1089	7.64	1112	8.19	1137	8.67	1159	9.36
16,480	3200	1049	6.25	1060	6.71	1072	7.02	1084	7.30	1096	7.64	1108	7.98	1119	8.26	1141	8.81	1165	9.29	1186	9.98



CFM	Outlet Velocity	2″ S.P.		2 ¼″ S.P.		2 ½″ S.P.		3″ S.P.		3 ½″ S.P.		4″ S.P.		4 ½″ S.P.		5″ S.P.		5 ½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,210	1400	779	2.92	813	3.26	844	3.62	901	4.36	962	5.16	1022	5.97	1079	6.81	1130	7.64	1182	8.53	1229	9.43
7,725	1500	796	3.17	831	3.52	859	3.90	918	4.65	972	5.46	1031	6.31	1084	7.16	1136	8.05	1189	9.01	1236	9.91
8,240	1600	816	3.44	849	3.81	877	4.19	935	4.97	986	5.80	1040	6.66	1092	7.57	1144	8.47	1196	9.43	1245	10.4
8,755	1700	837	3.73	867	4.11	896	4.51	952	5.31	1001	6.15	1051	7.02	1107	7.98	1154	8.88	1204	9.91	1252	10.9
9,270	1800	859	4.03	886	4.44	916	4.86	970	5.69	1020	6.55	1068	7.43	1120	8.40	1165	9.36	1211	10.4	1259	11.4
9,785	1900	880	4.34	908	4.78	936	5.22	988	6.07	1038	6.95	1086	7.92	1135	8.88	1177	9.84	1222	10.9	1268	11.9
10,300	2000	903	4.67	930	5.13	957	5.60	1006	6.50	1056	7.43	1106	8.33	1149	9.36	1194	10.3	1233	11.4	1280	12.5
10,815	2100	928	5.04	952	5.51	978	5.97	1026	6.95	1075	7.92	1125	8.88	1166	9.84	1211	10.9	1251	11.9	1295	13.0
11,330	2200	952	5.41	976	5.91	1001	6.39	1049	7.43	1096	8.40	1143	9.36	1184	10.4	1228	11.5	1269	12.5	1309	13.6
11,845	2300	976	5.82	1003	6.33	1025	6.83	1072	7.85	1118	8.88	1161	9.91	1204	11.0	1246	12.1	1287	13.1	1326	14.3
12,360	2400	1000	6.28	1027	6.76	1050	7.30	1095	8.33	1141	9.43	1183	10.5	1223	11.6	1265	12.7	1304	13.8	1343	15.0
12,875	2500	1025	6.74	1050	7.23	1074	7.78	1119	8.88	1163	9.98	1205	11.2	1242	12.3	1284	13.4	1322	14.6	1361	15.8
13,390	2600	1050	7.23	1074	7.78	1098	8.33	1142	9.43	1184	10.5	1227	11.8	1264	12.9	1304	14.1	1341	15.3	1379	16.5
13,905	2700	1075	7.71	1100	8.26	1123	8.88	1166	9.98	1207	11.2	1250	12.4	1286	13.6	1325	14.9	1361	16.0	1397	17.3
14,420	2800	1101	8.26	1124	8.81	1147	9.43	1192	10.6	1232	11.8	1273	13.1	1309	14.3	1347	15.6	1383	16.9	1417	18.1
14,935	2900	1127	8.81	1149	9.43	1171	10.0	1216	11.3	1256	12.5	1297	13.7	1332	15.0	1368	16.4	1405	17.7	1439	19.0
15,450	3000	1154	9.43	1175	10.0	1196	10.7	1241	12.0	1281	13.1	1320	14.5	1354	16.3	1391	17.1	1427	18.5	1460	19.9
15,960	3100	1181	9.98	1201	10.7	1223	11.4	1265	12.7	1305	14.0	1344	15.3	1378	17.0	1414	18.0	1448	19.4	1482	20.8
16,480	3200	1206	10.7	1228	11.3	1250	12.0	1290	13.4	1331	14.7	1368	16.0	1402	17.7	1437	18.9	1471	20.2	1505	2.17
16,995	3300	1234	11.4	1255	12.0	1275	12.7	1315	14.1	1355	15.6	1393	16.9	1427	18.4	1462	19.8	1496	21.1	1527	22.6
17,510	3400	1263	12.0	1281	12.8	1302	13.5	1341	14.9	1379	16.4	1417	17.8	1452	19.2	1486	20.7	1519	22.2	1549	23.7
18,025	3500	1291	12.7	1309	13.6	1328	14.3	1367	15.8	1404	17.3	1441	18.7	1476	20.2	1511	21.7	1544	23.2		
18,540	3600	1319	13.6	1338	14.2	1355	15.1	1394	16.6	1428	18.2	1465	19.7	1500	21.2	1538	22.7	1572	24.2		
19,570	3800	1372	15.3	1393	16.0	1412	16.7	1447	18.4	1481	20.0	1516	21.7	1549	23.3	1584	24.8	1617	26.4		
20,600	4000	1429	17.4	1447	18.0	1467	18.7	1500	20.5	1536	22.0	1568	23.8	1599	25.5	1634	27.2				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 660

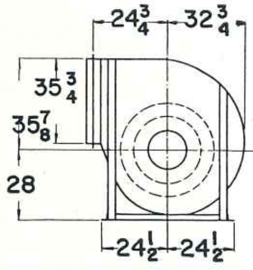
Buffalo Single Inlet Limit-Load Type "BL" Fans

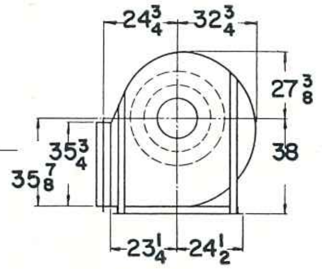
REG. U.S. PAT. OFF.

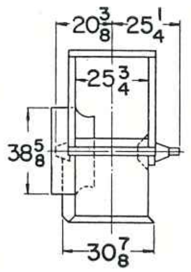
SIZE 660

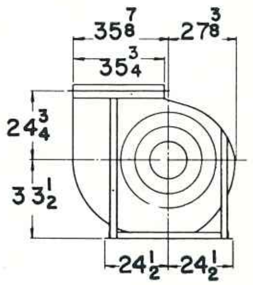
Wheel Diameter 33″. Limit Load H.P. = $10.08 \times \left(\frac{R.P.M.}{1000}\right)^3$ Outlet Area 6.26 sq. ft. inside.

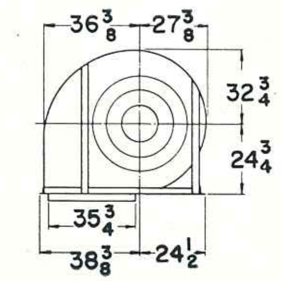
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5,008	800	311	.30	343	.40	372	.51	399	.63	424	.74	450	.87	474	1.00	522	1.27	567	1.56	606	1.85
5,634	900	333	.37	364	.49	390	.60	417	.73	441	.85	465	.98	488	1.11	531	1.40	572	1.70	611	2.01
6,260	1000	356	.45	386	.57	411	.70	436	.84	459	.97	481	1.11	504	1.25	544	1.55	582	1.86	619	2.20
6,886	1100	378	.54	408	.67	433	.82	457	.96	478	1.11	500	1.26	521	1.40	560	1.72	597	2.05	630	2.39
7,512	1200	405	.63	431	.78	456	.94	478	1.09	499	1.25	520	1.41	538	1.58	577	1.91	611	2.24	645	2.61
8,138	1300	431	.75	453	.92	478	1.08	500	1.25	521	1.41	539	1.58	558	1.76	595	2.11	628	2.48	662	2.84
8,764	1400	457	.90	479	1.06	501	1.24	522	1.42	543	1.58	560	1.77	578	1.96	613	2.34	645	2.72	678	3.10
9,390	1500	482	1.06	505	1.21	525	1.41	545	1.60	565	1.79	582	1.97	600	2.17	634	2.57	665	2.98	696	3.39
10,016	1600	510	1.23	531	1.39	549	1.60	569	1.80	587	2.00	606	2.20	623	2.40	654	2.82	685	3.25	715	3.69
10,642	1700	536	1.44	556	1.59	575	1.79	593	2.02	610	2.24	628	2.46	645	2.66	676	3.10	705	3.55	735	4.01
11,268	1800	563	1.65	581	1.85	600	2.02	618	2.25	634	2.49	651	2.71	667	2.95	699	3.40	728	3.86	754	4.34
11,894	1900	590	1.88	608	2.10	625	2.29	643	2.51	658	2.76	675	3.00	689	3.25	721	3.72	750	4.20	775	4.70
12,520	2000	618	2.15	634	2.39	651	2.61	668	2.80	684	3.05	699	3.31	714	3.57	745	4.07	772	4.56	797	5.07
13,146	2100	645	2.44	661	2.70	677	2.92	693	3.11	709	3.35	724	3.65	738	3.90	767	4.45	794	4.98	820	5.50
13,772	2200	673	2.77	688	3.03	704	3.26	718	3.47	733	3.71	748	3.99	762	4.28	790	4.83	816	5.39	842	5.94
14,398	2300	700	3.14	716	3.37	730	3.65	745	3.86	759	4.10	773	4.34	786	4.65	813	5.26	838	5.83	865	6.43
15,024	2400	728	3.55	743	3.75	757	4.04	771	4.30	784	4.55	799	4.77	812	5.06	836	5.71	863	6.30	887	6.92
15,650	2500	757	3.95	770	4.18	784	4.46	797	4.74	811	5.02	824	5.24	837	5.51	861	6.19	886	6.77	910	7.44
16,276	2600	785	4.37	797	4.60	812	4.93	824	5.20	837	5.49	849	5.78	863	6.00	887	6.68	910	7.33	933	7.99
16,902	2700	814	4.79	826	5.05	839	5.42	850	5.77	863	6.02	875	6.32	887	6.55	912	7.17	934	7.88	956	8.58
17,528	2800	843	5.22	854	5.58	867	5.94	878	6.30	890	6.59	901	6.87	913	7.18	938	7.72	960	8.50	981	9.16
18,154	2900	871	5.71	882	6.16	893	6.48	904	6.87	917	7.20	928	7.44	939	7.78	962	8.33	985	9.08	1006	9.82
18,780	3000	899	6.30	910	6.77	921	7.09	932	7.44	943	7.83	955	8.01	965	8.50	987	9.08	1010	9.65	1030	10.6
19,406	3100	928	6.90	938	7.40	949	7.75	960	8.06	971	8.50	982	8.75	992	9.16	1013	9.82	1036	10.4	1056	11.2
20,032	3200	955	7.49	965	8.05	976	8.42	987	8.75	998	9.16	1009	9.57	1019	9.90	1039	10.6	1061	11.1	1080	12.0











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8,764	1400	709	3.50	740	3.91	769	4.34	821	5.23	877	6.18	931	7.16	983	8.17	1029	9.16	1077	10.2	1120	11.3
9,390	1500	725	3.80	757	4.23	782	4.67	836	5.58	886	6.54	939	7.57	987	8.58	1035	9.65	1083	10.8	1126	11.9
10,016	1600	743	4.13	773	4.57	799	5.03	852	5.96	898	6.95	947	7.98	995	9.08	1042	10.1	1090	11.3	1134	12.5
10,642	1700	762	4.47	790	4.93	816	5.41	867	6.36	912	7.38	957	8.42	1008	9.57	1051	10.6	1096	11.9	1141	13.0
11,268	1800	782	4.83	807	5.32	834	5.83	884	6.82	929	7.85	973	8.91	1020	10.1	1061	11.2	1103	12.5	1147	13.7
11,894	1900	802	5.20	827	5.74	853	6.26	900	7.28	945	8.33	989	9.49	1034	10.6	1072	11.8	1113	13.0	1155	14.3
12,520	2000	823	5.59	847	6.15	871	6.71	917	7.79	962	8.91	1007	9.98	1047	11.2	1088	12.4	1123	13.6	1166	14.9
13,146	2100	845	6.04	867	6.60	891	7.16	934	8.33	979	9.49	1025	10.6	1062	11.8	1103	13.0	1139	14.3	1179	15.6
13,772	2200	867	6.49	889	7.08	912	7.66	955	8.91	998	10.1	1041	11.2	1079	12.5	1118	13.8	1156	15.0	1192	16.3
14,398	2300	889	6.97	913	7.58	933	8.19	976	9.41	1018	10.6	1058	11.9	1096	13.2	1135	14.5	1172	15.8	1208	17.2
15,024	2400	911	7.53	935	8.10	956	8.75	997	9.98	1039	11.3	1078	12.6	1114	13.9	1153	15.3	1188	16.6	1223	18.0
15,650	2500	933	8.08	956	8.66	978	9.32	1019	10.6	1059	12.0	1097	13.4	1132	14.8	1170	16.1	1204	17.5	1240	18.9
16,276	2600	956	8.66	978	9.32	1000	9.98	1040	11.3	1079	12.6	1117	14.1	1152	15.5	1188	16.9	1221	18.3	1256	19.8
16,902	2700	979	9.24	1002	9.90	1022	10.6	1062	12.0	1100	13.4	1138	14.9	1171	16.3	1207	17.8	1240	19.2	1273	20.7
17,528	2800	1003	9.90	1024	10.6	1045	11.3	1085	12.7	1122	14.2	1159	15.7	1192	17.2	1227	18.7	1260	20.2	1291	21.7
18,154	2900	1027	10.6	1047	11.3	1067	12.0	1107	13.5	1144	14.9	1181	16.4	1213	18.0	1246	19.6	1279	21.2	1310	22.8
18,780	3000	1051	11.3	1070	12.0	1090	12.8	1131	14.4	1167	15.8	1202	17.3	1233	19.6	1267	20.5	1299	22.2	1330	23.8
19,406	3100	1075	12.0	1094	12.8	1114	13.6	1153	15.2	1189	16.8	1224	18.3	1255	20.4	1288	21.5	1319	23.3	1350	24.9
20,032	3200	1099	12.8	1118	13.6	1138	14.4	1175	16.0	1212	17.7	1246	19.2	1277	21.2	1309	22.6	1340	24.3	1371	26.0
20,658	3300	1124	13.6	1143	14.4	1161	15.3	1198	16.9	1234	18.6	1268	20.3	1299	22.1	1331	23.7	1362	25.3	1391	27.1
21,284	3400	1150	14.4	1167	15.3	1186	16.2	1221	17.9	1256	19.6	1291	21.3	1322	23.0	1353	24.8	1383	26.6	1411	28.4
21,910	3500	1176	15.3	1192	16.3	1210	17.2	1245	18.9	1278	20.7	1313	22.4	1345	24.2	1377	26.0	1406	27.8		
22,536	3600	1201	16.3	1219	17.1	1234	18.2	1270	19.9	1300	21.8	1335	23.6	1367	25.4	1401	27.2	1432	29.0		
23,788	3800	1250	18.3	1268	19.2	1286	20.1	1318	22.1	1349	24.0	1381	26.0	1411	28.0	1443	29.7	1473	31.7		
25,040	4000	1302	20.9	1318	21.5	1336	22.4	1367	24.6	1399	26.4	1428	28.6	1456	30.6	1488	32.6				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 730

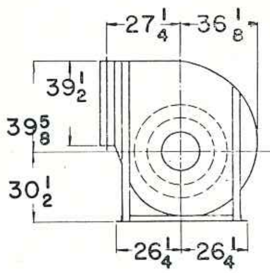
Buffalo Single Inlet Limit-Load Type "BL" Fans

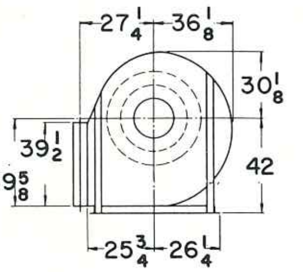
REG. U.S. PAT. OFF.

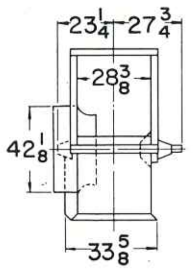
SIZE 730

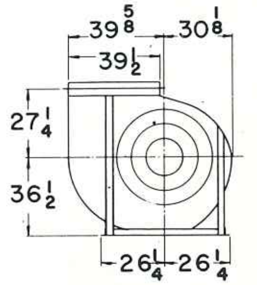
Wheel Diameter 36½″. Limit Load H.P. = $16.4 \times \left(\frac{R.P.M.}{1000}\right)^3$ Outlet Area 7.66 sq. ft. inside.

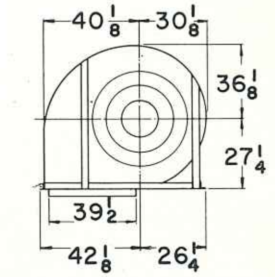
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6,128	800	282	.36	311	.49	337	.62	362	.76	384	.90	408	1.05	430	1.21	473	1.54	514	1.89	549	2.24
6,894	900	302	.45	330	.59	354	.73	378	.88	400	1.03	422	1.19	442	1.35	481	1.70	519	2.06	554	2.44
7,660	1000	323	.54	350	.69	373	.85	395	1.02	416	1.18	436	1.35	457	1.52	493	1.88	528	2.26	561	2.66
8,426	1100	343	.66	370	.81	393	.99	414	1.16	433	1.34	453	1.53	472	1.70	508	2.08	541	2.48	571	2.90
9,192	1200	367	.76	391	.95	413	1.14	433	1.32	452	1.52	471	1.71	488	1.91	523	2.31	554	2.72	585	3.16
9,958	1300	391	.91	411	1.11	433	1.31	453	1.51	472	1.71	489	1.92	506	2.13	539	2.56	569	3.00	600	3.44
10,724	1400	414	1.09	434	1.28	454	1.50	473	1.72	492	1.92	508	2.14	524	2.37	556	2.83	585	3.30	615	3.76
11,490	1500	437	1.28	458	1.47	476	1.71	494	1.94	512	2.17	528	2.39	544	2.63	575	3.11	603	3.61	631	4.11
12,256	1600	462	1.49	481	1.69	498	1.94	516	2.18	532	2.43	549	2.67	565	2.91	593	3.42	621	3.94	648	4.47
13,022	1700	486	1.74	504	1.93	521	2.17	538	2.45	553	2.71	569	2.98	585	3.22	613	3.76	639	4.30	666	4.86
13,788	1800	510	2.00	527	2.24	544	2.45	560	2.73	575	3.02	590	3.29	605	3.57	634	4.12	659	4.68	684	5.26
14,554	1900	535	2.28	551	2.55	567	2.78	583	3.04	597	3.35	612	3.64	625	3.94	654	4.51	680	5.09	703	5.70
15,320	2000	560	2.61	575	2.90	590	3.16	606	3.39	620	3.70	634	4.01	647	4.33	675	4.93	700	5.53	723	6.15
16,086	2100	585	2.96	599	3.17	614	3.54	628	3.77	643	4.06	656	4.42	669	4.73	695	5.39	720	6.03	743	6.67
16,852	2200	610	3.36	624	3.67	638	3.95	651	4.20	665	4.50	678	4.83	691	5.19	716	5.85	740	6.53	763	7.20
17,618	2300	635	3.80	649	4.08	662	4.42	675	4.68	688	4.97	701	5.26	713	5.64	737	6.37	760	7.07	784	7.79
18,384	2400	660	4.30	674	4.55	686	4.89	699	5.21	711	5.51	724	5.78	736	6.13	758	6.92	782	7.64	804	8.39
19,150	2500	686	4.79	698	5.06	711	5.41	723	5.75	735	6.08	747	6.35	759	6.68	781	7.50	803	8.21	825	9.02
19,916	2600	712	5.30	723	5.58	736	5.97	747	6.30	759	6.65	770	7.00	782	7.27	804	8.09	825	8.88	846	9.68
20,682	2700	738	5.81	749	6.12	761	6.57	771	6.99	782	7.29	793	7.66	804	7.94	827	8.69	847	9.55	867	10.4
21,448	2800	764	6.33	774	6.76	786	7.20	796	7.63	807	7.99	817	8.32	828	8.70	850	9.35	870	10.3	889	11.1
22,214	2900	790	6.92	800	7.46	810	7.85	820	8.32	831	8.72	841	9.01	851	9.43	872	10.1	893	11.0	912	11.9
22,980	3000	815	7.64	825	8.21	835	8.59	845	9.02	855	9.49	866	9.71	875	10.3	895	11.0	916	11.7	934	12.8
23,746	3100	841	8.36	850	8.97	860	9.39	870	9.77	880	10.3	890	10.6	899	11.1	918	11.9	939	12.6	957	13.6
24,512	3200	866	9.08	875	9.75	885	10.2	895	10.6	905	11.1	915	11.6	924	12.0	942	12.8	962	13.5	979	14.5











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10,724	1400	643	4.24	671	4.74	697	5.26	744	6.34	794	7.49	844	8.68	891	9.90	933	11.1	976	12.4	1015	13.7
11,490	1500	657	4.61	686	5.12	709	5.66	758	6.76	803	7.93	851	9.17	895	10.4	938	11.7	982	13.1	1021	14.4
12,256	1600	674	5.00	701	5.54	724	6.09	772	7.22	814	8.42	859	9.67	902	11.0	945	12.3	988	13.7	1028	15.1
13,022	1700	691	5.42	716	5.97	740	6.55	786	7.71	827	8.94	868	10.2	914	11.6	953	12.9	994	14.4	1034	15.8
13,788	1800	709	5.85	732	6.45	756	7.06	801	8.26	842	9.51	882	10.8	925	12.2	962	13.6	1000	15.1	1040	16.6
14,554	1900	727	6.30	750	6.95	773	7.58	816	8.82	857	10.1	897	11.5	937	12.9	972	14.3	1009	15.8	1047	17.3
15,320	2000	746	6.78	768	7.45	790	8.13	831	9.44	872	10.8	913	12.1	949	13.6	986	15.0	1018	16.5	1057	18.1
16,086	2100	766	7.32	786	8.00	808	8.68	847	10.1	888	11.5	929	12.9	963	14.3	1000	15.8	1033	17.3	1069	18.9
16,852	2200	786	7.86	806	8.58	827	9.28	866	10.8	905	12.2	944	13.6	978	15.1	1014	16.7	1048	18.2	1081	19.8
17,618	2300	806	8.45	828	9.19	846	9.92	885	11.4	923	12.9	959	14.4	994	16.0	1029	17.6	1063	19.1	1095	20.8
18,384	2400	826	9.12	848	9.82	867	10.6	904	12.1	942	13.7	977	15.3	1010	16.9	1045	18.5	1077	20.1	1109	21.8
19,150	2500	846	9.79	867	10.5	887	11.3	924	12.9	960	14.5	995	16.2	1026	17.9	1061	19.5	1092	21.2	1124	22.9
19,916	2600	867	10.5	887	11.3	907	12.1	943	13.7	978	15.3	1013	17.1	1044	18.8	1077	20.5	1107	22.2	1139	24.0
20,682	2700	888	11.2	908	12.0	927	12.9	963	14.5	997	16.2	1032	18.0	1062	19.8	1094	21.6	1124	23.3	1154	25.1
21,448	2800	909	12.0	928	12.8	947	13.7	984	15.4	1017	17.2	1051	19.0	1081	20.8	1112	22.7	1142	24.5	1170	26.3
22,214	2900	931	12.8	949	13.7	967	14.6	1004	16.4	1037	18.1	1071	19.9	1100	21.8	1130	23.8	1160	25.7	1188	27.6
22,980	3000	953	13.7	970	14.6	988	15.5	1025	17.4	1058	19.1	1090	21.0	1118	23.7	1149	24.9	1178	26.9	1206	28.9
23,746	3100	975	14.5	992	15.5	1010	16.5	1045	18.4	1078	20.3	1110	22.2	1138	24.7	1168	26.1	1196	28.2	1224	30.2
24,512	3200	996	15.5	1014	16.4	1032	17.5	1065	19.4	1099	21.4	1130	23.3	1158	25.7	1187	27.4	1215	29.4	1243	31.5
25,278	3300	1019	16.5	1036	17.5	1053	18.5	1086	20.5	1119	22.6	1150	24.6	1178	26.8	1207	28.7	1235	30.7	1261	32.9
26,044	3400	1043	17.5	1058	18.6	1075	19.6	1107	21.7	1139	23.8	1170	25.8	1199	27.9	1227	30.1	1254	32.2	1279	34.4
26,810	3500	1066	18.5	1081	19.7	1097	20.8	1129	22.9	1159	25.1	1190	27.2	1219	29.3	1248	31.5	1275	33.7		
27,576	3600	1089	19.7	1105	20.7	1119	22.0	1151	24.1	1179	26.4	1210	28.6	1239	30.8	1270	33.0	1298	35.2		
29,108	3800	1133	22.2	1150	23.3	1166	24.3	1195	26.8	1223	29.1	1252	31.5	1279	33.9	1308	36.0	1335	38.4		
30,640	4000	1180	25.3	1195	26.1	1211	27.1	1239	29.8	1268	32.0	1295	34.6	1320	37.1	1349	39.5				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 805

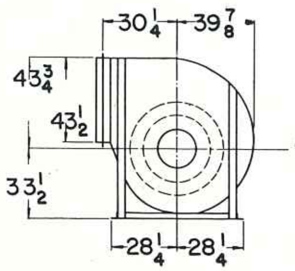
Buffalo Single Inlet Limit-Load Type "BL" Fans

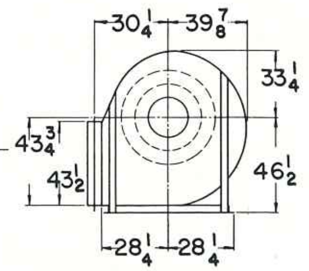
REG. U.S. PAT. OFF.

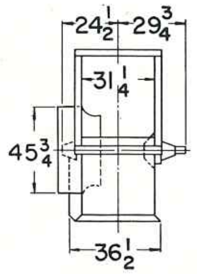
SIZE 805

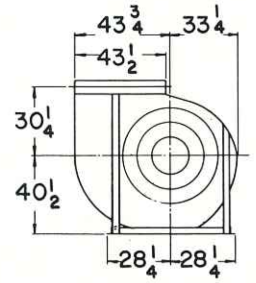
Wheel Diameter 40¼". Limit Load H.P. = $26.8 \times \left(\frac{R.P.M.}{1000}\right)^3$ Outlet Area 9.32 sq. ft. inside.

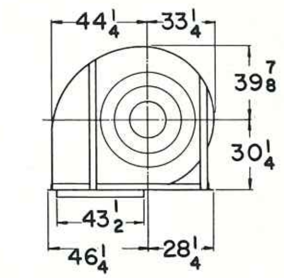
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,456	800	256	.44	282	.60	306	.75	328	.92	348	1.09	370	1.28	390	1.47	429	1.87	466	2.30	498	2.73
8,388	900	274	.55	299	.72	321	.89	343	1.07	363	1.25	383	1.45	401	1.64	436	2.07	471	2.51	502	2.97
9,320	1000	293	.66	317	.84	338	1.03	358	1.24	377	1.44	395	1.64	414	1.85	447	2.29	479	2.75	509	3.24
10,252	1100	311	.80	336	.99	356	1.20	375	1.41	393	1.63	410	1.86	428	2.07	461	2.53	491	3.02	518	3.53
11,184	1200	333	.92	355	1.16	375	1.39	393	1.61	410	1.85	427	2.08	443	2.32	474	2.81	502	3.31	530	3.84
12,116	1300	355	1.11	373	1.35	393	1.59	411	1.84	428	2.08	443	2.34	459	2.59	489	3.11	516	3.65	544	4.19
13,048	1400	375	1.33	394	1.56	412	1.82	429	2.09	446	2.34	461	2.60	475	2.88	504	3.44	530	4.01	558	4.57
13,980	1500	396	1.56	415	1.79	432	2.08	448	2.36	464	2.64	479	2.91	493	3.20	521	3.78	547	4.39	572	5.00
14,912	1600	419	1.81	436	2.06	452	2.36	468	2.65	482	2.96	498	3.25	512	3.54	538	4.16	563	4.79	588	5.44
15,844	1700	441	2.12	457	2.35	472	2.64	488	2.98	501	3.30	516	3.63	530	3.92	556	4.57	579	5.23	604	5.91
16,776	1800	462	2.43	478	2.73	493	2.98	508	3.32	521	3.67	535	4.00	549	4.34	575	5.01	598	5.69	620	6.40
17,708	1900	485	2.77	500	3.10	514	3.38	529	3.70	541	4.08	555	4.43	567	4.79	593	5.49	617	6.19	637	6.93
18,640	2000	508	3.18	521	3.53	535	3.84	550	4.12	562	4.50	575	4.88	587	5.27	612	6.00	635	6.73	656	7.48
19,572	2100	530	3.60	543	3.98	557	4.31	569	4.59	583	4.94	595	5.38	607	5.75	630	6.56	653	7.34	674	8.11
20,504	2200	553	4.09	566	4.46	579	4.81	590	5.11	603	5.47	615	5.88	627	6.31	649	7.12	671	7.94	692	8.76
21,436	2300	576	4.62	589	4.96	600	5.38	612	5.69	624	6.05	636	6.40	647	6.86	668	7.75	689	8.60	711	9.48
22,368	2400	598	5.23	611	5.54	622	5.95	634	6.34	645	6.70	657	7.03	667	7.46	687	8.42	709	9.29	729	10.2
23,300	2500	622	5.83	633	6.16	645	6.58	656	7.00	666	7.40	677	7.73	688	8.13	708	9.12	728	9.99	748	11.0
24,232	2600	646	6.45	656	6.79	667	7.26	677	7.66	688	8.09	698	8.52	709	8.84	729	9.84	748	10.8	767	11.8
25,164	2700	669	7.07	679	7.45	690	7.99	699	8.50	709	8.87	719	9.32	729	9.66	750	10.6	768	11.6	786	12.7
26,096	2800	693	7.70	702	8.22	713	8.76	722	9.28	732	9.72	741	10.1	751	10.6	771	11.4	789	12.5	806	13.5
27,028	2900	716	8.42	725	9.08	735	9.55	745	10.1	754	10.6	763	11.0	772	11.5	791	12.3	810	13.4	827	14.5
27,960	3000	739	9.29	748	9.99	757	10.5	766	11.0	775	11.5	785	11.8	795	12.5	812	13.4	831	14.5	847	15.6
28,892	3100	763	10.2	771	10.9	780	11.4	789	11.9	798	12.5	807	12.9	815	13.5	832	14.5	851	15.3	868	16.5
29,824	3200	785	11.0	793	11.9	803	12.4	812	12.9	821	13.5	830	14.1	838	14.6	854	15.6	872	16.4	888	17.6











CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13,048	1400	583	5.16	608	5.77	632	6.40	675	7.71	720	9.11	765	10.6	808	12.0	846	13.5	885	15.1	920	16.7
13,980	1500	596	5.61	622	6.23	643	6.89	687	8.22	728	9.65	772	11.2	812	12.7	851	14.2	890	15.9	926	17.5
14,912	1600	611	6.08	636	6.74	657	7.41	700	8.78	738	10.2	779	11.8	818	13.4	857	15.0	896	16.7	932	18.4
15,844	1700	627	6.59	649	7.26	671	7.97	713	9.38	750	10.9	787	12.4	828	14.1	864	15.7	901	17.5	938	19.2
16,776	1800	643	7.12	664	7.85	686	8.59	726	10.0	764	11.6	800	13.1	839	14.8	872	16.5	907	18.4	943	20.2
17,708	1900	659	7.66	680	8.46	701	9.22	740	10.7	777	12.3	813	14.0	850	15.7	881	17.4	915	19.2	949	21.0
18,640	2000	676	8.25	696	9.06	716	9.89	754	11.5	791	13.1	828	14.7	861	16.5	894	18.2	923	20.1	958	22.0
19,572	2100	695	8.91	713	9.73	733	10.6	768	12.3	805	14.0	842	15.7	873	17.4	907	19.2	937	21.0	969	23.0
20,504	2200	713	9.56	731	10.4	750	11.3	785	13.1	821	14.8	856	16.5	887	18.4	919	20.3	950	22.1	980	24.1
21,436	2300	731	10.3	751	11.2	767	12.1	803	13.9	837	15.7	870	17.5	901	19.5	933	21.4	964	23.2	993	25.3
22,368	2400	749	11.1	769	11.9	786	12.9	820	14.7	854	16.7	886	18.6	916	20.6	948	22.5	977	24.5	1006	26.5
23,300	2500	767	11.9	786	12.8	804	13.7	838	15.7	871	17.6	902	19.7	930	21.8	962	23.7	990	25.8	1019	27.9
24,232	2600	786	12.8	804	13.7	822	14.7	855	16.7	887	18.6	919	20.8	947	22.9	977	24.9	1004	27.0	1033	29.2
25,164	2700	805	13.6	823	14.6	841	15.7	873	17.6	904	19.7	936	21.9	963	24.1	992	26.3	1019	28.3	1046	30.5
26,096	2800	824	14.6	842	15.6	859	16.7	892	18.7	922	20.9	953	23.1	980	25.3	1008	27.6	1036	29.8	1061	32.0
27,028	2900	844	15.6	861	16.7	877	17.8	910	20.0	940	22.0	971	24.2	997	26.5	1025	29.0	1052	31.3	1077	33.6
27,960	3000	864	16.7	880	17.8	896	18.9	929	21.2	959	23.2	988	25.5	1014	28.8	1042	30.3	1068	32.7	1094	35.2
28,892	3100	884	17.6	900	18.9	916	20.1	948	22.4	978	24.7	1007	27.0	1032	30.1	1059	31.8	1085	34.3	1110	36.7
29,824	3200	903	18.9	919	20.0	936	21.3	966	23.6	997	26.0	1025	28.3	1050	31.3	1076	33.3	1102	35.8	1127	38.3
30,756	3300	924	20.1	939	21.3	955	22.5	985	24.9	1015	27.5	1042	29.9	1068	32.6	1095	34.9	1120	37.3	1143	40.0
31,688	3400	946	21.3	959	22.6	975	23.8	1004	26.4	1033	29.0	1061	31.4	1087	33.9	1113	36.6	1137	39.2	1160	41.9
32,620	3500	967	22.5	980	24.0	995	25.3	1024	27.9	1051	30.5	1079	33.1	1105	35.6	1132	38.3	1156	41.0		
33,552	3600	988	24.0	1002	25.2	1015	26.8	1044	29.3	1069	32.1	1097	34.8	1124	37.5	1152	40.1	1177	42.8		
35,416	3800	1027	27.0	1043	28.3	1057	29.6	1084	32.6	1109	35.4	1135	38.3	1160	41.2	1186	43.8	1211	46.7		
37,280	4000	1070	30.8	1084	31.8	1098	33.0	1124	36.3	1150	38.9	1174	42.1	1197	45.1	1223	48.1				

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 890

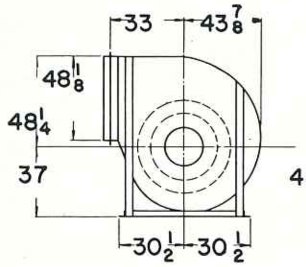
Buffalo Single Inlet Limit-Load Type "BL" Fans

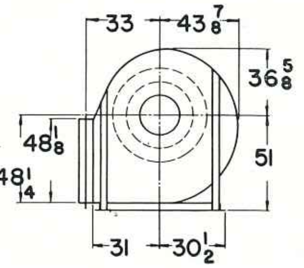
REG. U.S. PAT. OFF.

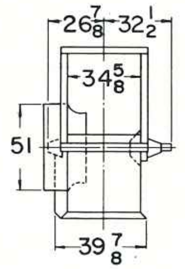
SIZE 890

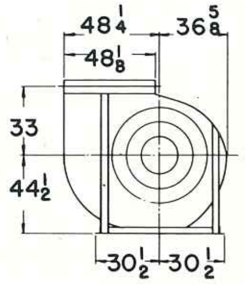
Wheel Diameter 44½". Limit Load H.P. = $44.2 \times \left(\frac{R.P.M.}{1000}\right)^3$ Outlet Area 11.38 sq. ft. inside.

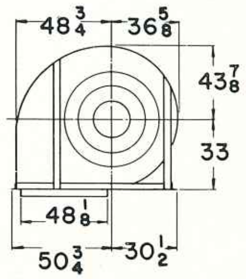
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9,104	800	231	.53	255	.73	276	.92	297	1.13	315	1.34	335	1.56	353	1.80	388	2.29	422	2.81	450	3.33
10,242	900	248	.67	271	.88	290	1.08	310	1.31	328	1.53	346	1.77	363	2.01	395	2.53	426	3.06	454	3.63
11,380	1000	265	.80	287	1.03	306	1.26	324	1.52	341	1.75	358	2.01	375	2.26	404	2.79	433	3.36	460	3.95
12,518	1100	281	.98	303	1.20	322	1.47	340	1.72	355	1.99	372	2.27	387	2.53	417	3.09	444	3.69	468	4.31
13,656	1200	301	1.13	321	1.41	339	1.69	355	1.96	371	2.26	386	2.54	400	2.84	429	3.43	454	4.04	480	4.70
14,794	1300	321	1.35	337	1.65	355	1.95	372	2.24	387	2.54	401	2.85	415	3.17	442	3.80	467	4.46	492	5.11
15,932	1400	340	1.62	356	1.90	372	2.23	388	2.56	404	2.85	417	3.18	430	3.52	456	4.21	480	4.90	504	5.59
17,070	1500	358	1.90	376	2.18	390	2.54	405	2.88	420	3.22	433	3.55	446	3.91	472	4.62	495	5.36	518	6.11
18,208	1600	379	2.21	395	2.51	408	2.88	423	3.24	436	3.61	450	3.97	463	4.32	486	5.08	509	5.85	531	6.64
19,346	1700	399	2.59	413	2.87	427	3.22	441	3.64	454	4.03	467	4.43	480	4.78	503	5.59	524	6.39	546	7.22
20,484	1800	418	2.97	432	3.33	446	3.64	459	4.06	472	4.49	484	4.89	496	5.31	520	6.12	541	6.95	561	7.82
21,622	1900	439	3.39	452	3.79	465	4.13	478	4.52	490	4.98	502	5.41	513	5.85	536	6.70	558	7.56	577	8.47
22,760	2000	459	3.88	472	4.31	484	4.70	497	5.04	509	5.50	520	5.96	531	6.43	554	7.33	574	8.22	593	9.14
23,898	2100	480	4.40	491	4.86	504	5.26	515	5.60	527	6.03	538	6.57	549	7.03	570	8.01	591	8.96	609	9.91
25,036	2200	500	4.99	512	5.45	523	5.87	534	6.24	545	6.69	556	7.18	567	7.71	587	8.69	607	9.70	626	10.7
26,174	2300	521	5.65	532	6.06	543	6.57	554	6.95	564	7.39	575	7.82	585	8.38	604	9.47	623	10.5	643	11.6
27,312	2400	541	6.39	553	6.76	563	7.27	573	7.74	583	8.19	594	8.59	604	9.11	622	10.3	641	11.4	659	12.5
28,450	2500	563	7.12	572	7.52	583	8.04	593	8.54	603	9.03	613	9.44	623	9.93	641	11.1	659	12.2	677	13.4
29,588	2600	584	7.88	593	8.29	604	8.87	613	9.36	623	9.88	632	10.4	641	10.8	659	12.0	677	13.2	694	14.4
30,726	2700	605	8.63	605	9.09	624	9.76	632	10.4	641	10.8	650	11.4	659	11.8	678	12.9	695	14.2	711	15.5
31,864	2800	627	9.41	635	10.0	645	10.7	653	11.3	662	11.9	670	12.4	679	12.9	697	13.9	714	15.3	729	16.5
33,002	2900	648	10.3	656	11.1	664	11.7	673	12.4	682	13.0	690	13.4	698	14.0	715	15.0	732	16.3	748	17.7
34,140	3000	668	11.4	677	12.2	685	12.8	693	13.4	701	14.1	710	14.4	718	15.3	734	16.3	751	17.4	766	19.0
35,278	3100	690	12.4	697	13.3	705	14.0	714	14.5	722	15.3	730	15.8	737	16.5	753	17.7	770	18.7	785	20.2
36,416	3200	710	13.5	718	14.5	726	15.2	734	15.8	742	16.5	750	17.2	758	17.8	773	19.0	789	20.1	803	21.5











CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15,932	1400	527	6.30	550	7.04	572	7.82	610	9.42	651	1.11	692	12.9	731	14.7	765	16.5	801	18.4	833	20.4
17,070	1500	539	6.85	563	7.61	582	8.41	622	10.0	659	11.8	700	13.6	734	15.5	769	17.4	805	19.5	837	21.4
18,208	1600	553	7.43	575	8.23	594	9.05	633	10.7	668	12.5	705	14.4	740	16.3	775	18.3	810	20.4	843	22.4
19,346	1700	567	8.05	587	8.87	607	9.73	645	11.5	678	13.3	712	15.2	750	17.2	782	19.2	815	21.4	848	23.5
20,484	1800	582	8.69	600	9.58	620	10.5	657	12.3	691	14.1	723	16.0	759	18.1	789	20.2	820	22.4	853	24.7
21,622	1900	596	9.36	615	10.3	634	11.3	669	13.1	703	15.0	736	17.1	769	19.2	797	21.2	828	23.5	859	25.7
22,760	2000	612	10.1	630	11.1	648	12.1	682	14.0	715	16.0	749	18.0	778	20.2	809	22.3	835	24.5	867	26.9
23,898	2100	628	10.9	645	11.9	663	12.9	695	15.0	728	17.1	762	19.2	790	21.2	820	23.5	847	25.7	877	28.1
25,036	2200	645	11.7	661	12.7	678	13.8	710	16.0	742	18.1	774	20.2	802	22.4	832	24.8	860	27.0	887	29.4
26,174	2300	661	12.6	679	13.7	694	14.7	726	16.9	757	19.2	787	21.4	815	23.8	844	26.2	872	28.4	898	30.9
27,312	2400	677	13.6	696	14.6	711	15.8	741	18.0	773	20.4	801	22.7	828	25.1	857	27.5	883	29.9	910	32.4
28,450	2500	694	14.5	711	15.6	728	16.8	758	19.2	787	21.5	816	24.1	842	26.6	870	29.0	896	31.5	923	34.0
29,588	2600	711	15.6	728	16.8	744	18.0	773	20.4	802	22.7	831	25.4	856	27.9	883	30.5	908	33.0	934	35.7
30,726	2700	728	16.6	745	17.8	760	19.2	790	21.5	818	24.1	846	26.7	871	29.4	879	32.1	922	34.6	947	37.3
31,864	2800	746	17.8	761	19.0	777	20.4	807	22.9	834	25.6	860	28.2	887	30.9	912	33.7	937	36.4	960	39.1
33,002	2900	764	19.0	778	20.4	793	21.7	823	24.4	851	26.9	878	29.6	902	32.4	927	35.4	951	38.2	974	41.0
34,140	3000	782	20.4	796	21.7	810	23.0	841	25.9	868	28.4	894	31.2	917	35.2	942	37.0	966	40.0	989	42.9
35,278	3100	800	21.5	814	23.0	828	24.5	857	27.3	884	30.2	910	33.0	933	36.7	958	38.8	981	41.9	1004	44.9
36,416	3200	817	23.0	832	24.4	846	26.0	874	28.8	901	31.8	927	34.6	950	38.2	974	40.7	997	43.7	1020	46.8
37,554	3300	836	24.5	850	26.0	864	27.5	891	30.5	918	33.6	943	36.6	966	39.8	990	42.6	1013	45.6	1034	48.9
38,692	3400	855	26.0	868	27.6	882	29.1	908	32.2	934	35.4	960	38.3	983	41.5	1006	44.7	1029	47.8	1049	51.1
39,830	3500	874	27.5	887	29.3	900	30.9	926	34.0	951	37.3	976	40.4	1000	43.5	1024	46.8	1046	50.1		
40,968	3600	893	29.3	906	30.8	918	32.7	944	35.8	967	39.2	992	42.5	1016	45.8	1042	49.0	1065	52.3		
43,244	3800	929	33.0	943	34.6	956	36.1	980	39.8	1003	43.2	1027	46.8	1049	50.4	1073	53.5	1095	57.1		
45,520	4000	968	37.6	980	38.8	993	40.3	1016	44.3	1040	47.6	1062	51.4	1083	55.1	1106	58.7				

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 980

Buffalo Single Inlet Limit-Load Type "BL" Fans

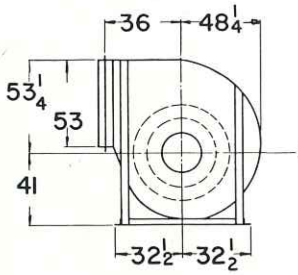
SIZE 980

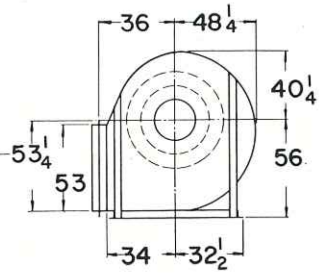
Wheel Diameter 49″.

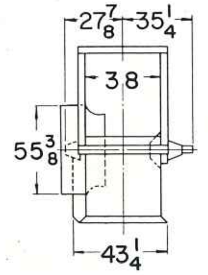
Limit Load H.P. = $71.1 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

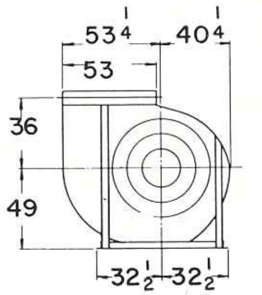
Outlet Area 13.81 sq. ft. inside.

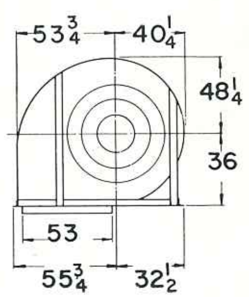
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11,048	800	210	.65	232	.88	251	1.12	270	1.37	286	1.62	304	1.89	320	2.18	352	2.78	383	3.41	409	4.04
12,429	900	225	.81	246	1.06	264	1.32	282	1.59	298	1.86	314	2.14	329	2.43	358	3.06	387	3.71	413	4.40
13,810	1000	241	.97	261	1.24	278	1.53	294	1.84	310	2.13	325	2.43	340	2.74	367	3.39	393	4.07	418	4.79
15,191	1100	256	1.19	276	1.46	293	1.78	308	2.09	323	2.42	337	2.76	352	3.06	378	3.75	403	4.47	425	5.23
16,572	1200	273	1.37	291	1.71	308	2.05	323	2.38	337	2.74	351	3.08	364	3.44	390	4.16	413	4.90	436	5.70
17,953	1300	291	1.64	306	2.00	323	2.36	337	2.72	352	3.08	364	3.46	377	3.84	402	4.61	424	5.41	447	6.20
19,334	1400	308	1.96	323	2.31	338	2.70	352	3.10	366	3.46	378	3.86	390	4.27	414	5.10	436	5.95	458	6.78
20,715	1500	326	2.31	341	2.65	355	3.08	368	3.50	381	3.91	393	4.31	405	4.74	428	5.61	449	6.51	470	7.41
22,096	1600	344	2.69	358	3.05	371	3.50	384	3.93	396	4.38	409	4.81	421	5.24	442	6.16	463	7.10	483	8.06
23,477	1700	362	3.14	375	3.48	388	3.91	401	4.42	412	4.88	424	5.37	436	5.80	457	6.78	476	7.75	496	8.76
24,858	1800	380	3.60	393	4.04	405	4.42	417	4.92	428	5.44	439	5.93	451	6.43	472	7.43	491	8.43	510	9.48
26,239	1900	399	4.11	410	4.60	422	5.01	434	5.48	445	6.04	456	6.56	466	7.10	487	8.13	507	9.17	524	10.3
27,620	2000	417	5.23	428	5.23	439	5.70	451	6.11	462	6.67	472	7.23	482	7.80	503	8.89	521	9.97	539	11.1
29,001	2100	436	5.89	446	5.89	457	6.38	468	6.79	479	7.32	489	7.97	498	8.52	518	9.71	536	10.9	553	12.0
30,382	2200	454	6.06	465	6.61	475	7.12	485	7.57	495	8.11	505	8.71	515	9.35	533	10.5	551	11.8	568	13.0
31,763	2300	473	6.85	483	7.35	493	7.97	503	8.43	512	8.96	522	9.48	531	10.2	549	11.5	566	12.7	584	14.0
33,144	2400	492	7.75	502	8.20	511	8.81	521	9.39	530	9.93	539	10.4	548	11.0	565	12.5	583	13.8	599	15.1
34,525	2500	511	8.63	520	9.12	539	9.75	539	10.4	548	11.0	556	11.4	565	12.0	581	13.5	598	14.8	615	16.3
35,906	2600	530	9.55	539	10.1	557	10.8	556	11.4	565	12.0	574	12.6	583	13.1	598	14.6	615	16.0	630	17.4
37,287	2700	550	10.5	558	11.0	575	11.8	574	12.6	583	13.1	591	13.8	599	14.3	616	15.7	631	17.2	646	18.7
38,668	2800	569	11.4	577	12.2	585	13.0	593	13.8	601	14.4	609	15.0	617	15.7	633	16.9	648	18.6	662	20.0
40,049	2900	588	12.5	596	13.4	603	14.1	611	15.0	619	15.7	626	16.2	634	17.0	650	18.2	665	19.8	679	21.4
41,430	3000	607	13.8	615	14.8	622	15.5	629	16.3	637	17.1	645	17.5	652	18.6	667	19.8	682	21.1	696	23.1
42,811	3100	626	15.1	633	16.2	641	16.9	648	17.6	656	18.6	663	19.1	670	20.0	683	21.4	699	22.7	713	24.5
44,192	3200	645	16.4	652	17.6	659	18.4	667	19.1	674	20.0	682	20.9	688	21.6	702	23.1	717	24.3	729	26.1











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19,334	1400	479	7.64	500	8.54	519	9.48	554	11.4	591	13.5	629	15.6	664	17.8	695	20.0	727	22.3	756	24.7
20,715	1500	489	8.31	511	9.23	528	10.2	565	12.2	598	14.3	634	16.5	667	18.7	699	21.1	731	23.6	761	26.0
22,096	1600	502	9.01	522	9.98	539	11.0	575	13.0	606	15.2	640	17.4	672	19.8	704	22.2	736	24.7	766	27.2
23,477	1700	515	9.77	533	10.8	551	11.8	585	13.9	616	16.1	647	18.4	681	20.9	710	23.2	740	26.0	770	28.5
24,858	1800	528	10.5	545	11.6	563	12.7	597	14.9	627	17.1	657	19.5	689	22.0	717	24.5	745	27.2	775	29.9
26,239	1900	542	11.4	559	12.5	576	13.7	608	15.9	638	18.2	668	20.7	698	23.2	724	25.8	752	28.5	780	31.2
27,620	2000	556	12.2	572	13.4	588	14.7	619	17.0	650	19.5	680	21.8	707	24.5	734	27.0	758	29.7	787	32.6
29,001	2100	571	13.2	585	14.4	602	15.6	631	18.2	661	20.7	692	23.2	717	25.8	745	28.5	769	31.2	796	34.1
30,382	2200	585	14.2	600	15.5	616	16.7	645	19.5	674	22.0	703	24.5	729	27.2	755	30.1	781	32.8	805	35.7
31,763	2300	600	15.2	617	16.6	630	17.9	659	20.5	688	23.2	714	26.0	740	28.8	767	31.7	792	34.4	816	37.5
33,144	2400	615	16.4	632	17.7	646	19.1	673	21.8	702	24.7	728	27.6	752	30.5	778	33.3	802	36.2	826	39.3
34,525	2500	630	17.6	646	18.9	661	20.4	688	23.2	715	26.1	741	29.2	764	32.3	790	35.1	813	38.2	837	41.3
35,906	2600	646	18.9	661	20.4	676	21.8	702	24.7	729	27.6	755	30.8	778	33.9	802	36.9	825	40.0	848	43.3
37,287	2700	661	20.2	676	21.6	691	23.2	717	26.1	743	29.2	769	32.4	791	35.7	815	38.9	837	42.0	860	45.2
38,668	2800	677	21.6	691	23.1	705	24.7	733	27.8	758	31.0	783	34.2	805	37.5	828	40.9	851	44.2	872	47.4
40,049	2900	694	23.1	707	24.7	720	26.3	748	29.6	772	32.6	798	35.9	819	39.3	842	42.9	864	46.3	885	49.7
41,430	3000	710	24.7	723	26.3	736	27.9	764	31.4	788	34.4	812	37.8	833	42.7	856	44.9	877	48.5	898	52.1
42,811	3100	726	26.1	739	27.9	752	29.7	778	33.2	803	36.6	827	40.0	848	44.5	870	47.0	891	50.8	912	54.4
44,192	3200	742	27.9	755	29.6	769	31.5	793	35.0	819	38.6	842	42.0	863	46.3	884	49.4	905	53.0	926	56.8
45,573	3300	759	29.7	772	31.5	784	33.3	809	36.9	834	40.7	857	44.3	877	48.3	899	51.7	920	55.3	939	59.3
46,954	3400	777	31.5	788	33.5	801	35.3	825	39.1	848	42.9	872	46.5	893	50.3	914	54.2	934	58.0	953	62.0
48,335	3500	794	33.3	805	35.5	817	37.5	841	41.3	863	45.2	886	49.0	908	52.8	930	56.8	950	60.7		
49,716	3600	811	35.5	823	37.3	834	39.7	857	43.4	878	47.6	901	51.5	923	55.5	946	59.5	967	63.4		
52,478	3800	844	40.0	857	42.0	869	43.8	890	48.3	911	52.4	933	56.8	953	61.1	974	64.9	994	69.2		
55,240	4000	879	45.6	890	47.0	902	48.8	923	53.7	945	57.7	965	62.4	983	66.9	1005	71.2				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1085

Buffalo Single Inlet Limit-Load Type "BL" Fans

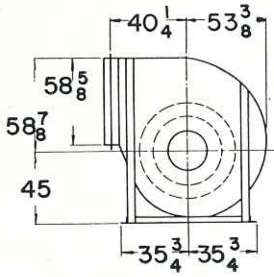
SIZE 1085

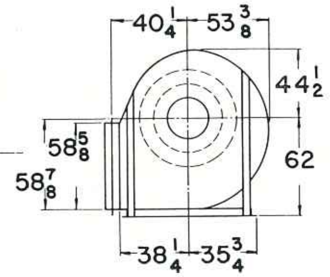
Wheel Diameter 54¼″.

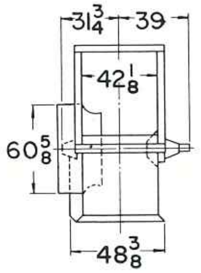
Limit Load H.P. = $118.8 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$

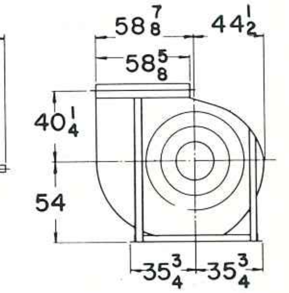
Outlet Area 16.92 sq. ft. inside.

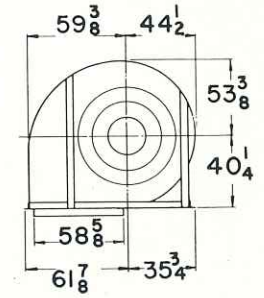
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13,536	800	190	.80	209	1.08	227	1.37	244	1.68	258	1.99	275	2.32	289	2.67	318	3.40	346	4.18	369	4.95
15,228	900	203	.99	222	1.30	238	1.61	254	1.94	269	2.28	284	2.63	297	2.98	324	3.76	349	4.55	373	5.39
16,920	1000	217	1.19	235	1.52	251	1.88	266	2.25	280	2.61	293	2.98	307	3.36	332	4.15	355	4.99	377	5.88
18,612	1100	231	1.46	249	1.79	264	2.19	279	2.56	291	2.96	305	3.38	318	3.76	342	4.59	364	5.48	384	6.41
20,304	1200	247	1.68	263	2.10	278	2.52	291	2.92	304	3.36	317	3.78	328	4.22	352	5.10	373	6.01	393	6.98
21,996	1300	263	2.01	277	2.45	291	2.89	305	3.34	318	3.78	329	4.24	340	4.71	363	5.66	383	6.63	404	7.60
23,688	1400	279	2.41	292	2.83	305	3.31	318	3.80	331	4.24	342	4.73	353	5.24	374	6.25	394	7.29	414	8.31
25,380	1500	294	2.83	308	3.25	320	3.78	332	4.29	344	4.79	355	5.28	366	5.81	387	6.87	406	7.97	425	9.08
27,072	1600	311	3.29	324	3.73	335	4.29	347	4.82	358	5.37	369	5.90	380	6.43	399	7.56	418	8.70	436	9.87
28,764	1700	327	3.84	339	4.26	351	4.79	362	5.41	372	5.99	383	6.58	394	7.11	412	8.31	430	9.50	448	10.7
30,456	1800	343	4.42	355	4.95	366	5.41	377	6.03	387	6.67	397	7.27	407	7.89	427	9.10	443	10.3	460	11.6
32,148	1900	360	5.04	371	5.63	381	6.14	392	6.72	402	7.40	412	8.04	421	8.70	440	9.96	458	11.2	473	12.6
33,840	2000	377	5.77	387	6.41	397	6.98	408	7.49	417	8.17	427	8.86	435	9.57	454	10.9	471	12.2	486	13.6
35,532	2100	394	6.54	403	7.22	413	7.82	423	8.33	433	8.97	441	9.76	450	10.4	468	11.9	484	13.3	500	14.7
37,224	2200	410	7.42	420	8.11	429	8.73	438	9.28	447	9.94	456	10.7	465	11.5	482	12.9	498	14.4	513	15.9
38,916	2300	427	8.39	436	9.01	445	9.76	454	10.3	463	11.0	472	11.6	480	12.5	496	14.1	511	15.6	527	17.2
40,608	2400	444	9.50	453	10.1	462	10.8	470	11.5	478	12.2	487	12.8	495	13.5	510	15.3	526	16.9	541	18.5
42,300	2500	462	10.6	470	11.2	478	12.0	486	12.7	495	13.4	503	14.0	511	14.8	525	16.6	540	18.1	555	19.9
43,992	2600	479	11.7	486	12.3	495	13.2	503	13.9	511	14.7	518	15.5	526	16.1	541	17.9	555	19.6	569	21.4
45,684	2700	497	12.8	504	13.5	512	14.5	519	15.4	526	16.1	534	16.9	541	17.5	556	19.2	570	21.1	583	23.0
47,376	2800	514	14.0	521	14.9	529	15.9	536	16.9	543	17.7	550	18.4	557	19.2	572	20.7	585	22.8	598	24.5
49,068	2900	532	15.3	538	16.5	545	17.3	552	18.4	559	19.3	566	19.9	573	20.8	587	22.3	601	24.3	614	26.3
50,760	3000	548	16.9	555	18.1	562	19.0	569	19.9	575	21.0	583	21.5	589	22.8	602	24.3	616	25.8	628	28.3
52,452	3100	566	18.5	572	19.8	579	20.7	585	21.6	592	22.8	599	23.4	605	24.5	618	26.3	632	27.8	644	30.0
54,144	3200	583	20.1	589	21.5	595	22.5	602	23.4	609	24.5	616	25.6	622	26.5	634	28.3	647	29.8	659	32.0











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23,688	1400	433	9.36	451	10.5	469	11.6	501	14.0	534	16.5	568	19.2	599	21.9	628	24.5	657	27.4	683	30.3
25,380	1500	442	10.2	462	11.3	477	12.5	510	14.9	540	17.5	573	20.3	602	23.0	631	25.8	661	28.9	687	31.8
27,072	1600	453	11.0	472	12.2	487	13.5	519	15.9	548	18.6	578	21.4	607	24.3	636	27.2	665	30.3	692	33.4
28,764	1700	465	12.0	482	13.2	498	14.5	529	17.0	556	19.7	583	22.5	615	25.6	641	28.5	669	31.8	696	34.9
30,456	1800	477	12.9	492	14.2	509	15.6	539	18.2	566	21.0	593	23.9	622	27.0	647	30.0	673	33.4	700	36.7
32,148	1900	489	13.9	505	15.4	520	16.7	549	19.5	577	22.3	604	25.4	630	28.5	654	31.6	679	34.9	704	38.2
33,840	2000	502	15.0	517	16.5	532	18.0	559	20.9	587	23.9	614	26.7	638	30.0	663	33.1	685	36.5	711	40.0
35,532	2100	515	16.2	529	17.7	544	19.2	570	22.3	597	25.4	625	28.5	648	31.6	673	34.9	695	38.2	719	41.8
37,224	2200	529	17.4	542	19.0	556	20.5	583	23.9	609	27.0	635	30.0	658	33.4	682	36.9	705	40.2	727	43.7
38,916	2300	542	18.7	557	20.3	569	21.9	595	25.2	621	28.5	645	31.8	669	35.3	692	38.9	715	42.2	737	45.9
40,608	2400	556	20.1	571	21.7	583	23.4	608	26.7	634	30.3	657	33.8	680	37.3	703	40.9	725	44.4	746	48.2
42,300	2500	569	21.6	583	23.2	597	25.0	622	28.5	646	32.0	669	35.8	690	39.5	714	43.1	735	46.8	756	50.6
43,992	2600	583	23.2	597	25.0	610	26.7	634	30.3	658	33.8	682	37.8	702	41.5	725	45.3	745	49.0	766	53.0
45,684	2700	597	24.7	611	26.5	624	28.5	648	32.0	671	35.8	694	39.8	715	43.7	736	47.7	756	51.5	776	55.4
47,376	2800	612	26.5	624	28.3	637	30.3	662	34.0	684	38.0	707	42.0	727	45.9	748	50.1	768	54.1	787	58.1
49,068	2900	626	28.3	638	30.3	651	32.3	675	36.2	698	40.0	721	44.0	740	48.2	760	52.6	780	56.8	799	61.0
50,760	3000	641	30.3	653	32.3	665	34.2	690	38.4	712	42.2	733	46.4	752	52.4	773	55.0	793	59.4	811	63.8
52,452	3100	656	32.0	667	34.2	680	36.5	703	40.6	725	44.8	747	49.0	766	54.5	786	57.7	805	62.3	824	66.7
54,144	3200	670	34.2	682	36.2	694	38.7	717	42.9	739	47.3	760	51.5	779	56.8	799	60.5	817	64.9	836	69.6
55,836	3300	686	36.5	697	38.7	708	40.9	731	45.3	753	49.9	774	54.3	793	59.2	812	63.4	831	67.8	848	72.7
57,528	3400	702	38.7	712	41.1	723	43.3	745	47.9	766	52.6	787	57.0	807	61.6	826	66.5	844	71.1	861	76.0
59,220	3500	717	40.9	727	43.5	738	45.9	760	50.6	780	55.4	801	60.1	820	64.7	840	69.6	858	74.4		
60,912	3600	733	43.5	743	45.7	753	48.6	774	53.2	793	58.3	814	63.2	834	68.0	854	72.9	873	77.8		
64,296	3800	762	49.0	774	51.5	784	53.7	804	59.2	823	64.3	842	69.6	861	74.9	880	79.5	898	84.8		
67,680	4000	794	55.9	804	57.8	815	59.9	834	65.8	853	70.7	871	76.4	888	82.0	908	87.3				

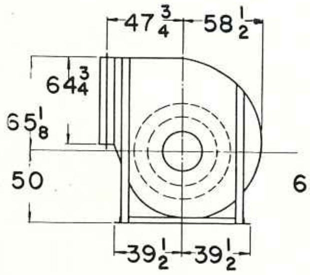
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

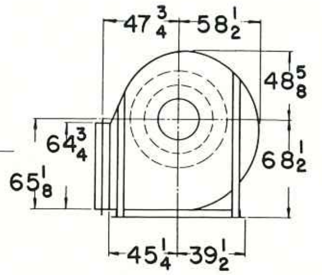
SIZE 1200 Buffalo Single Inlet Limit-Load Type "BL" Fans SIZE 1200

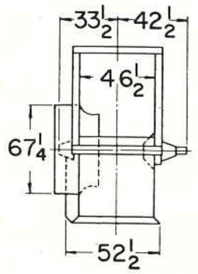
REG. U.S. PAT. OFF.

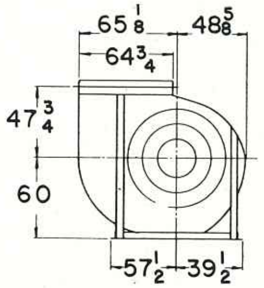
Wheel Diameter 60″. Limit Load H.P. $= 187.6 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 20.70 sq. ft. inside.

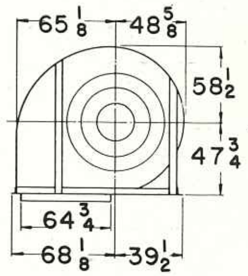
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16,560	800	173	.96	191	1.30	207	1.65	222	2.02	236	2.39	251	2.79	264	3.21	291	4.09	316	5.02	337	5.94
18,630	900	186	1.19	203	1.57	217	1.94	232	2.34	246	2.73	259	3.16	272	3.58	296	4.51	319	5.47	340	6.48
20,700	1000	198	1.43	215	1.83	229	2.26	243	2.71	256	3.13	268	3.58	281	4.03	303	4.99	324	6.00	345	7.06
22,770	1100	210	1.75	227	2.15	241	2.63	254	3.08	266	3.56	278	4.06	290	4.51	312	5.52	332	6.58	351	7.70
24,840	1200	225	2.02	240	2.52	254	3.03	266	3.50	278	4.03	289	4.54	300	5.07	321	6.13	340	7.22	359	8.39
26,910	1300	240	2.42	253	2.95	266	3.48	278	4.01	290	4.54	300	5.10	311	5.65	331	6.79	350	7.96	369	9.13
28,980	1400	254	2.89	267	3.40	279	3.98	291	4.56	302	5.10	312	5.68	322	6.29	342	7.51	359	8.76	378	9.98
31,050	1500	268	3.40	281	3.90	292	4.53	304	5.15	315	5.76	324	6.34	334	6.98	353	8.25	370	9.58	389	10.9
33,120	1600	284	3.95	296	4.49	306	5.15	317	5.79	327	6.45	337	7.09	347	7.72	364	9.08	382	10.5	398	11.9
35,190	1700	299	4.62	310	5.12	320	5.76	331	6.50	340	7.19	350	7.91	359	8.55	377	9.98	393	11.4	409	12.9
37,260	1800	313	5.31	324	5.94	334	6.50	344	7.25	353	8.02	362	8.73	372	9.47	390	10.9	405	12.4	420	14.0
39,330	1900	329	6.05	339	6.77	348	7.37	358	8.07	367	8.89	376	9.66	384	10.5	402	12.0	418	13.5	432	15.1
41,400	2000	344	6.93	353	7.70	362	8.39	372	9.00	381	9.82	390	10.6	398	11.5	415	13.1	430	14.7	444	16.3
43,470	2100	359	7.86	368	8.68	377	9.40	386	10.0	395	10.8	403	11.7	411	12.6	427	14.3	442	16.0	456	17.7
45,540	2200	375	8.92	383	9.74	392	10.5	400	11.1	409	11.9	417	12.8	425	13.8	440	15.5	455	17.3	469	19.1
47,610	2300	390	10.1	399	10.8	407	11.7	415	12.4	423	13.2	431	14.0	438	15.0	453	16.9	467	18.8	482	20.7
49,680	2400	406	11.4	414	12.1	421	13.0	429	13.8	437	14.6	445	15.3	452	16.3	466	18.4	480	20.3	494	22.3
51,750	2500	421	12.7	429	13.4	437	14.4	444	15.3	452	16.1	459	16.9	466	17.7	480	19.9	493	21.8	507	23.9
53,820	2600	437	14.1	444	14.8	452	15.8	459	16.7	466	17.6	473	18.6	480	19.3	494	21.5	507	23.6	520	25.7
55,890	2700	453	15.4	460	16.2	468	17.4	474	18.6	480	19.3	487	20.3	494	21.1	508	23.1	520	25.3	533	27.6
57,960	2800	469	16.8	476	17.9	483	19.1	489	20.3	496	21.2	502	22.1	509	23.1	522	24.8	535	27.3	546	29.5
60,030	2900	485	18.4	492	19.8	498	20.8	504	22.1	511	23.1	517	23.9	523	25.0	536	26.8	549	29.2	560	31.6
62,100	3000	501	20.3	507	21.8	513	22.8	519	23.9	525	25.2	532	25.8	538	27.3	550	29.2	563	31.1	574	34.0
64,170	3100	517	22.2	522	23.8	528	24.9	535	25.9	541	27.3	547	28.1	552	29.5	564	31.6	577	33.4	588	36.1
66,240	3200	532	24.1	538	25.9	544	27.1	550	28.1	556	29.5	562	30.8	568	31.8	578	34.0	591	35.8	601	38.5











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28,980	1400	395	11.3	412	12.6	428	14.0	457	16.8	488	19.9	519	23.0	547	26.3	573	29.5	600	32.9	624	36.4
31,050	1500	404	12.2	421	13.6	436	15.0	466	17.9	493	21.0	523	24.3	550	27.6	576	31.1	603	34.8	627	38.2
33,120	1600	414	13.3	431	14.7	445	16.2	474	19.2	500	22.3	528	25.7	554	29.2	581	32.6	607	36.4	632	40.1
35,190	1700	425	14.4	440	15.8	455	17.4	482	20.5	508	23.7	533	27.1	562	30.8	586	34.2	611	38.2	635	41.9
37,260	1800	436	15.5	450	17.1	464	18.7	492	21.9	517	25.2	542	28.7	568	32.4	591	36.1	614	40.1	639	44.1
39,330	1900	447	16.7	461	18.4	475	20.1	501	23.4	527	26.8	551	30.5	576	34.2	597	38.0	620	41.9	643	45.9
41,400	2000	458	18.0	472	19.8	485	21.6	511	25.1	536	28.7	561	32.1	583	36.1	606	39.8	625	43.8	649	48.0
43,470	2100	471	19.4	483	21.2	496	23.0	520	26.8	546	30.5	571	34.2	592	38.0	614	41.9	635	45.9	657	50.2
45,540	2200	483	20.9	495	22.8	508	24.6	532	28.7	556	32.4	580	36.1	601	40.1	623	44.3	644	48.3	664	52.5
47,610	2300	495	22.4	509	24.4	520	26.3	544	30.3	567	34.2	589	38.2	611	42.5	632	46.7	653	50.7	673	55.2
49,680	2400	507	24.2	521	26.1	533	28.1	555	32.1	573	36.4	600	40.6	621	44.9	642	49.1	662	53.3	681	57.9
51,750	2500	520	26.0	533	27.9	545	30.0	568	34.2	590	38.5	611	43.0	630	47.5	652	51.8	671	56.3	691	60.8
53,820	2600	533	27.9	545	30.0	557	32.1	579	36.4	601	40.6	622	45.4	641	49.9	662	54.4	680	58.9	700	63.7
55,890	2700	546	29.7	558	31.8	570	34.2	592	38.5	613	43.0	634	47.8	652	52.5	672	57.3	691	61.8	709	66.6
57,960	2800	558	31.8	570	34.0	582	36.4	605	40.9	625	45.6	646	50.4	664	55.2	683	60.2	702	65.0	719	69.8
60,030	2900	572	34.0	583	36.4	594	38.7	617	43.5	637	48.0	658	52.8	676	57.9	694	63.2	713	68.2	730	73.3
62,100	3000	586	36.4	596	38.7	607	41.1	630	46.2	650	50.7	670	55.7	687	62.9	706	66.1	724	71.4	741	76.7
64,170	3100	599	38.5	609	41.1	621	43.8	642	48.8	662	53.9	682	58.9	699	65.6	718	69.3	735	74.8	752	80.2
66,240	3200	612	41.1	623	43.5	634	46.4	654	51.5	675	56.8	694	61.8	711	68.2	729	72.7	746	78.0	764	83.6
68,310	3300	626	43.8	637	46.4	647	49.1	667	54.4	688	60.0	707	65.3	724	71.1	742	76.2	759	81.5	775	87.3
70,380	3400	641	46.4	650	49.4	660	52.0	680	57.6	700	63.2	719	68.5	737	74.0	754	79.9	770	85.5	786	91.3
72,450	3500	655	49.1	664	52.3	674	55.2	694	60.8	712	66.6	731	72.2	749	77.8	767	83.6	783	89.4		
74,520	3600	669	52.3	679	54.9	688	58.4	707	64.0	724	70.1	743	75.9	761	81.7	780	87.6	797	93.4		
78,660	3800	696	58.9	707	61.8	716	64.5	734	71.1	751	77.2	769	83.6	786	90.0	804	95.5	820	101.9		
82,800	4000	725	67.1	734	69.3	744	71.9	761	79.1	779	84.9	796	91.8	811	98.5	829	104.8				

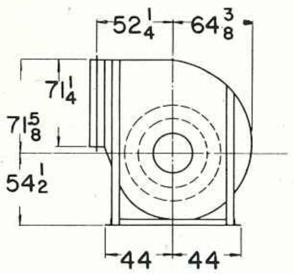
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

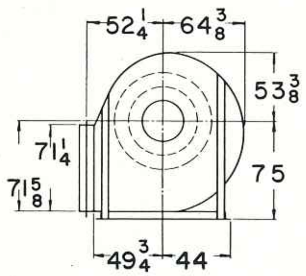
SIZE 1320 Buffalo Single Inlet Limit-Load Type "BL" Fans SIZE 1320

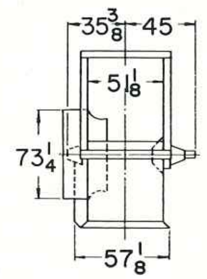
REG. U.S. PAT. OFF.

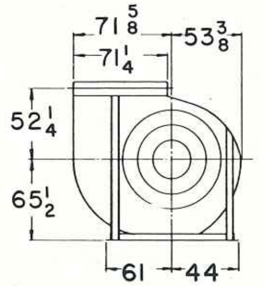
Wheel Diameter 66″. Limit Load H.P. $= 302.2 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 25.05 sq. ft. inside.

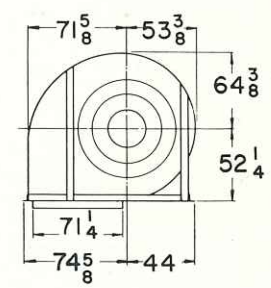
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20,040	800	157	1.16	174	1.57	188	1.99	202	2.44	214	2.89	228	3.37	240	3.88	264	4.94	287	6.07	307	7.19
22,545	900	169	1.45	184	1.89	198	2.34	211	2.83	223	3.31	236	3.82	247	4.33	269	5.46	290	6.61	309	7.83
25,050	1000	180	1.73	195	2.22	208	2.73	221	3.27	232	3.79	244	4.33	255	4.88	275	6.04	295	7.26	313	8.54
27,555	1100	192	2.12	207	2.60	219	3.18	231	3.72	242	4.30	253	4.91	264	5.46	284	6.68	302	7.96	319	9.31
30,060	1200	205	2.44	218	3.05	231	3.66	242	4.24	252	4.88	263	5.49	273	6.13	292	7.42	309	8.73	327	10.1
32,565	1300	218	2.92	230	3.56	242	4.21	253	4.85	264	5.49	273	6.16	283	6.84	301	8.22	318	9.63	335	11.0
35,070	1400	231	3.50	242	4.11	254	4.82	264	5.52	275	6.16	284	6.87	293	7.61	311	9.09	327	10.6	343	12.1
37,575	1500	244	4.11	256	4.72	266	5.49	276	6.23	286	6.97	295	7.67	304	8.44	321	9.99	337	11.6	352	13.2
40,080	1600	258	4.78	269	5.43	278	6.23	288	7.00	297	7.80	307	8.57	316	9.34	331	11.0	347	12.7	362	14.4
42,585	1700	271	5.59	281	6.20	291	6.97	300	7.87	309	8.70	318	9.57	327	10.3	342	12.1	357	13.8	372	15.6
45,090	1800	285	6.42	294	7.19	304	7.87	313	8.77	321	9.70	330	10.6	338	11.5	354	13.2	368	15.0	382	16.9
47,595	1900	299	7.32	308	8.19	317	8.93	326	9.76	333	10.8	342	11.7	349	12.7	365	14.5	380	16.3	393	18.3
50,100	2000	313	8.38	321	9.31	330	10.1	338	10.9	346	11.9	354	12.9	361	13.9	377	15.8	391	17.8	404	19.7
52,605	2100	327	9.50	335	10.5	343	11.4	351	12.1	359	13.0	366	14.2	374	15.2	388	17.3	402	19.4	415	21.4
55,110	2200	341	10.8	349	11.8	356	12.7	364	13.5	371	14.4	379	15.5	386	16.7	400	18.8	413	21.0	426	23.1
57,615	2300	355	12.2	362	13.1	370	14.2	377	15.0	384	16.0	392	16.9	398	18.1	412	20.5	424	22.7	438	25.0
60,120	2400	369	13.8	376	14.6	383	15.7	390	16.7	397	17.7	404	18.6	411	19.7	423	22.2	437	24.5	449	26.9
62,625	2500	383	15.4	390	16.2	397	17.4	404	18.5	410	19.5	417	20.4	424	21.4	436	24.1	448	26.4	461	29.0
65,130	2600	398	17.0	404	17.9	411	19.2	417	20.2	424	21.4	430	22.5	437	23.3	449	26.0	461	28.5	472	31.1
67,635	2700	412	18.7	418	19.6	425	21.1	431	22.4	437	23.4	442	24.6	449	25.5	462	27.9	473	30.7	484	33.4
70,140	2800	427	20.3	432	21.7	439	23.1	445	24.5	451	25.7	456	26.7	462	27.9	475	30.0	486	33.1	497	35.6
72,645	2900	441	22.2	447	24.0	452	25.2	458	26.7	464	28.0	470	28.9	475	30.3	487	32.4	499	35.3	509	38.2
75,150	3000	455	24.5	461	26.4	466	27.6	472	29.0	478	30.5	484	31.2	489	33.1	500	35.3	512	37.6	522	41.1
77,655	3100	470	26.8	475	28.8	480	30.1	486	31.4	491	33.1	497	34.0	502	35.6	513	38.2	524	40.5	534	43.7
80,160	3200	484	29.2	489	31.3	494	32.7	500	34.0	505	35.6	511	37.2	516	38.5	526	41.1	537	43.3	547	46.6











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35,070	1400	359	13.6	375	15.2	389	16.9	416	20.4	443	24.0	471	27.9	498	31.8	521	35.6	545	39.8	567	44.0
37,575	1500	367	14.8	383	16.4	396	18.2	423	21.7	448	25.5	475	29.4	500	33.4	524	37.6	548	42.1	570	46.2
40,080	1600	376	16.1	392	17.8	404	19.6	431	23.2	455	27.0	480	31.0	504	35.3	528	39.5	552	44.0	574	48.5
42,585	1700	386	17.4	400	19.2	413	21.0	439	24.8	462	28.7	485	32.7	510	37.2	532	41.4	555	46.2	577	50.7
45,090	1800	396	18.8	409	20.7	422	22.7	447	26.5	470	30.5	493	34.7	517	39.2	537	43.7	559	48.5	581	53.3
47,595	1900	406	20.2	419	22.3	432	24.3	456	28.3	479	32.4	501	36.9	523	41.4	543	45.9	564	50.7	585	55.5
50,100	2000	417	21.8	429	23.9	441	26.1	464	30.3	487	34.7	510	38.8	530	43.7	551	48.2	569	53.0	590	58.1
52,605	2100	428	23.5	439	25.7	451	27.9	473	32.4	496	36.9	519	41.4	538	45.9	559	50.7	577	55.5	597	60.7
55,110	2200	439	25.2	450	27.5	462	29.8	484	34.7	505	39.2	527	43.7	546	48.5	566	53.6	585	58.4	604	63.6
57,615	2300	450	27.1	462	29.5	472	31.9	494	36.6	515	41.4	536	46.2	555	51.4	575	56.5	594	61.3	612	66.8
60,120	2400	461	29.3	474	31.5	484	34.0	505	38.8	526	44.0	546	49.1	564	54.3	584	59.4	602	64.5	619	70.0
62,625	2500	472	31.4	484	33.7	495	36.3	516	41.4	536	46.6	556	52.0	573	57.5	593	62.6	610	68.1	628	73.5
65,130	2600	484	33.7	495	36.3	507	38.8	527	44.0	546	49.1	566	54.9	583	60.4	602	65.8	618	71.3	636	77.1
67,635	2700	496	36.0	507	38.5	518	41.1	538	46.6	557	52.0	576	57.8	593	63.6	611	69.4	628	74.8	645	80.6
70,140	2800	508	38.5	518	41.1	529	44.0	550	49.4	568	55.2	587	61.0	604	66.8	621	72.9	638	78.7	653	84.4
72,645	2900	520	41.1	530	44.0	540	46.9	561	52.7	579	58.1	598	63.9	614	70.0	631	76.4	648	82.5	663	88.6
75,150	3000	532	44.0	542	46.9	552	49.8	572	55.9	591	61.3	609	67.4	624	76.1	642	79.9	658	86.4	674	92.8
77,655	3100	545	46.6	554	49.8	564	53.0	584	59.1	602	65.2	620	71.3	636	79.3	652	83.8	668	90.5	684	97.0
80,160	3200	556	49.8	566	52.7	576	56.2	595	62.3	614	68.7	631	74.8	647	82.5	663	88.0	679	94.4	694	101.1
82,665	3300	569	53.0	579	56.2	588	59.4	607	65.8	625	72.6	642	79.0	658	86.0	674	92.1	690	98.6	704	105.6
85,170	3400	583	56.2	591	59.7	600	62.9	618	69.7	636	76.4	653	82.8	670	89.6	685	96.6	700	103.4	714	110.4
87,675	3500	595	59.4	604	63.3	613	66.8	631	73.5	647	80.6	665	87.3	681	94.1	697	101.1	712	108.2		
90,180	3600	608	63.3	617	66.5	625	70.6	643	77.4	658	84.8	676	91.8	692	98.9	709	106.0	725	113.0		
95,190	3800	633	71.3	642	74.8	651	78.0	667	86.0	683	93.4	699	101.1	714	108.8	731	115.6	746	123.3		
100,200	4000	659	81.2	667	83.8	676	87.0	692	95.7	708	102.7	723	111.1	737	119.1	753	126.8				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1460

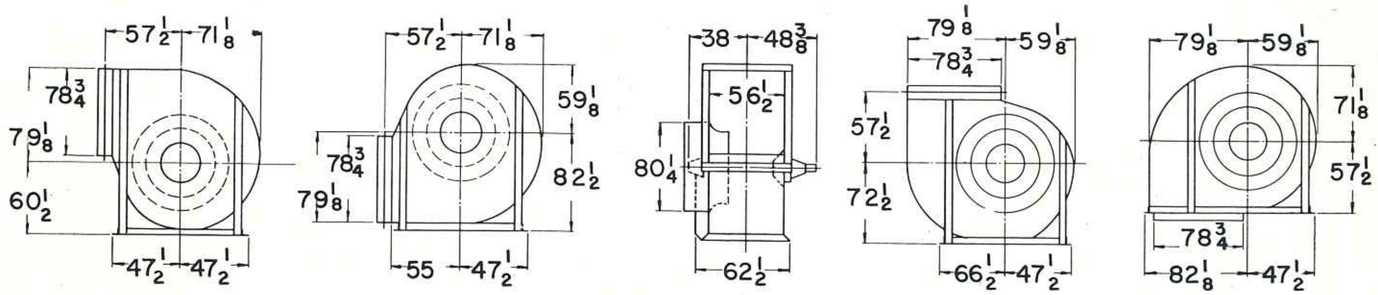
Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

SIZE 1460

Wheel Diameter 73″. Limit Load H.P. $= 500.2 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 30.64 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24,512	800	142	1.41	157	1.92	170	2.44	183	2.99	194	3.54	206	4.12	217	4.75	239	6.05	260	7.42	277	8.80
27,576	900	153	1.77	167	2.32	179	2.87	191	3.46	202	4.05	213	4.67	223	5.30	243	6.68	262	8.09	280	9.58
30,640	1000	163	2.12	177	2.71	188	3.34	199	4.01	210	4.64	220	5.30	231	5.97	249	7.38	267	8.88	283	10.4
33,704	1100	173	2.59	187	3.18	198	3.89	209	4.56	219	5.26	229	6.01	238	6.68	257	8.17	273	9.74	288	11.4
36,768	1200	185	2.99	197	3.73	209	4.48	219	5.18	228	5.97	238	6.72	247	7.50	264	9.07	280	10.7	295	12.4
39,832	1300	197	3.57	208	4.36	219	5.15	229	5.93	238	6.72	247	7.54	256	8.37	272	10.1	287	11.8	303	13.5
42,896	1400	209	4.28	219	5.03	229	5.89	239	6.76	248	7.54	257	8.41	265	9.31	281	11.1	295	13.0	311	14.8
45,960	1500	221	5.03	231	5.77	240	6.72	249	7.62	259	8.52	267	9.39	275	10.3	290	12.2	305	14.2	319	16.1
49,024	1600	233	5.85	243	6.64	251	7.62	261	8.56	269	9.55	277	10.5	286	11.4	299	13.4	314	15.5	327	17.6
52,088	1700	245	6.83	255	7.58	263	8.52	272	9.62	279	10.6	287	11.7	295	12.6	310	14.8	322	16.9	336	19.1
55,152	1800	258	7.86	266	8.80	275	9.62	283	10.7	290	11.9	298	12.9	306	14.0	320	16.2	333	18.4	345	20.7
58,216	1900	270	8.96	278	10.0	286	10.9	294	11.9	301	13.2	309	14.3	316	15.5	330	17.7	343	20.0	355	22.4
61,280	2000	283	10.3	290	11.4	298	12.4	306	13.3	313	14.5	320	15.8	327	17.0	341	19.4	354	21.7	365	24.2
64,344	2100	295	11.6	302	12.8	310	13.9	317	14.8	325	15.9	331	17.4	338	18.6	351	21.2	364	23.7	375	26.2
67,408	2200	308	13.2	315	14.4	322	15.5	329	16.5	336	17.7	342	19.0	349	20.4	362	23.0	374	25.6	385	28.3
70,472	2300	321	14.9	328	16.0	334	17.4	341	18.4	347	19.5	354	20.7	360	22.2	372	25.0	384	27.8	396	30.6
73,536	2400	333	16.9	340	17.9	346	19.2	353	20.5	359	21.6	366	22.7	372	24.1	383	27.2	395	30.0	406	33.0
76,600	2500	346	18.8	352	19.9	359	21.3	365	22.6	371	23.9	377	24.9	383	26.2	394	29.5	406	32.2	417	35.4
79,664	2600	360	20.8	365	21.9	372	23.5	377	24.7	383	26.1	389	27.5	395	28.6	406	31.8	417	34.9	427	38.0
82,728	2700	373	22.8	378	24.0	384	25.8	389	27.5	395	28.6	400	30.1	406	31.2	418	34.1	428	37.5	438	40.9
85,792	2800	386	24.9	391	26.6	397	28.3	402	30.0	408	31.4	413	32.7	418	34.2	429	36.7	439	40.5	449	43.6
88,856	2900	399	27.2	404	29.3	409	30.8	414	32.7	420	34.3	425	35.4	430	37.0	440	39.7	451	43.2	461	46.7
91,920	3000	412	30.0	417	32.2	422	33.7	427	35.4	432	37.3	437	38.1	442	40.5	452	43.2	463	46.0	472	50.3
94,984	3100	425	32.8	429	35.2	434	36.9	439	38.4	444	40.5	449	41.6	454	43.6	464	46.7	474	49.5	483	53.4
98,048	3200	437	35.7	442	38.3	447	40.1	452	41.6	457	43.6	462	45.6	467	47.1	476	50.3	486	53.0	494	57.0



CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
42,896	1400	325	16.7	339	18.6	352	20.7	376	24.9	401	29.4	426	34.1	450	38.9	471	43.6	493	48.7	513	53.8
45,960	1500	332	18.1	346	20.1	358	22.2	383	26.6	406	31.1	430	36.0	452	40.9	474	46.0	496	51.5	516	56.6
49,024	1600	340	19.6	354	21.8	366	23.9	390	28.4	411	33.1	434	38.0	456	43.2	477	48.3	499	53.8	519	59.3
52,088	1700	349	21.3	362	23.5	374	25.7	397	30.3	418	35.1	438	40.1	462	45.6	481	50.7	502	56.6	522	62.1
55,152	1800	358	23.0	370	25.3	382	27.7	405	32.4	425	37.4	445	42.4	467	47.9	486	53.4	505	59.3	525	65.2
58,216	1900	367	24.7	379	27.3	390	29.8	412	34.6	433	39.7	453	45.2	473	50.7	491	56.2	510	62.1	529	68.0
61,280	2000	377	26.6	388	29.3	399	31.9	420	37.1	440	42.4	461	47.5	479	53.4	498	58.9	514	64.8	534	71.1
64,344	2100	387	28.8	397	31.4	408	34.1	428	39.7	448	45.2	469	50.7	486	56.2	505	62.1	522	68.0	540	74.2
67,408	2200	397	30.9	407	33.7	418	36.5	437	42.4	457	47.9	477	53.4	494	59.3	512	65.6	529	71.5	546	77.8
70,472	2300	407	31.2	418	36.1	427	39.0	447	44.8	466	50.7	484	56.6	502	62.8	520	69.1	537	75.0	553	81.7
73,536	2400	417	35.8	428	38.6	438	41.6	457	47.5	476	53.8	493	60.1	510	66.4	528	72.7	544	79.0	560	85.6
76,600	2500	427	38.5	438	41.2	448	44.4	467	50.7	485	57.0	502	63.6	518	70.3	536	76.6	551	83.3	568	90.0
79,664	2600	438	41.2	448	44.4	458	47.5	476	53.8	494	60.1	512	67.2	527	73.8	544	80.5	559	87.2	575	94.3
82,728	2700	448	44.0	459	47.1	468	50.7	486	57.0	503	63.6	521	70.7	536	77.8	552	84.8	568	91.5	583	98.6
85,792	2800	459	47.1	469	50.3	478	53.8	497	60.5	514	67.6	531	74.6	546	81.7	562	89.2	577	96.2	591	103.3
88,856	2900	470	50.3	479	53.8	488	57.3	507	64.4	524	71.1	541	78.2	556	85.6	571	93.5	586	100.9	600	108.4
91,920	3000	481	53.8	490	57.3	499	60.9	518	68.3	534	75.0	550	82.5	565	93.1	580	97.8	595	105.7	609	113.5
94,984	3100	492	57.0	501	60.9	510	64.8	528	72.3	544	79.7	561	87.2	575	97.0	590	102.5	604	110.8	618	118.6
98,048	3200	503	60.9	512	64.4	521	68.7	538	76.2	555	84.1	571	91.5	585	100.9	599	107.6	614	115.5	628	123.7
101,112	3300	515	64.8	523	68.7	532	72.7	548	80.5	565	88.8	581	96.6	595	105.3	610	112.7	624	120.6	637	129.2
104,176	3400	527	68.7	534	73.1	543	77.0	558	85.2	575	93.5	591	101.3	605	109.6	620	118.2	633	126.5	646	135.1
107,240	3500	538	72.7	546	77.4	554	81.7	570	90.0	585	98.6	601	106.8	616	115.1	630	123.7	644	132.4		
110,304	3600	550	77.4	558	81.3	565	86.4	581	94.7	595	103.7	611	112.3	626	121.0	641	129.6	655	138.3		
116,432	3800	572	87.2	581	91.5	589	95.5	603	105.3	618	114.3	632	123.7	646	133.2	661	141.4	674	150.8		
122,560	4000	596	99.4	603	102.5	612	106.4	626	117.1	640	125.7	654	135.9	667	145.7	681	154.0				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1615

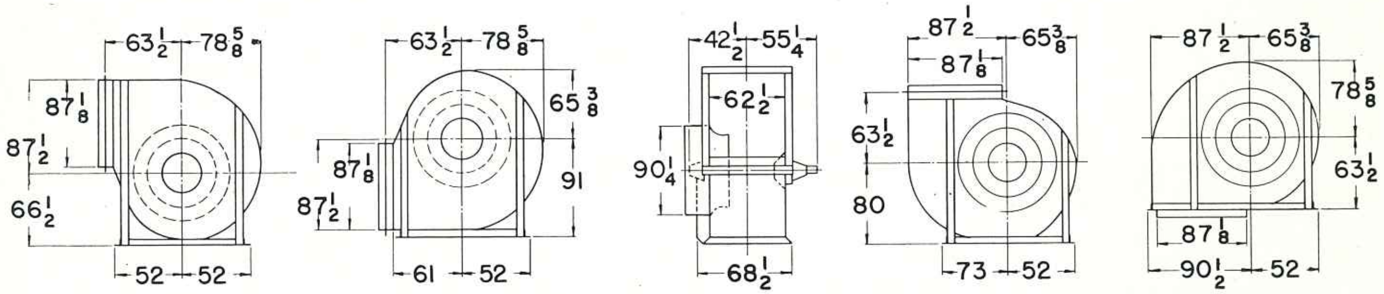
Buffalo Single Inlet Limit-Load Type "BL" Fans

REG. U.S. PAT. OFF.

SIZE 1615

Wheel Diameter 80¾″. Limit Load H.P. $= 828.4 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 37.49 sq. ft. inside.

CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29,992	800	129	1.73	142	2.36	154	2.98	165	3.65	175	4.33	186	5.05	196	5.82	216	7.40	235	9.08	251	10.8
33,741	900	138	2.16	151	2.84	162	3.51	173	4.23	183	4.95	193	5.72	202	6.49	220	8.17	237	9.90	253	11.7
37,490	1000	147	2.60	160	3.32	170	4.09	180	4.90	190	5.67	199	6.49	209	7.31	225	9.04	241	10.9	256	12.8
41,239	1100	157	3.17	169	3.89	179	4.76	189	5.58	198	6.44	207	7.35	215	8.17	232	10.0	247	11.9	261	13.9
44,988	1200	168	3.65	178	4.57	189	5.48	198	6.34	206	7.31	215	8.22	223	9.18	239	11.1	253	13.1	267	15.2
48,737	1300	178	4.37	188	5.33	198	6.30	207	7.26	215	8.22	223	9.23	231	10.2	246	12.3	260	14.4	274	16.5
52,486	1400	189	5.24	198	6.15	207	7.21	216	8.27	225	9.23	232	10.3	239	11.4	254	13.6	267	15.9	281	18.1
56,235	1500	199	6.15	209	7.07	217	8.22	226	9.32	234	10.4	241	11.5	248	12.6	262	14.9	275	17.4	288	19.8
59,984	1600	211	7.16	220	8.12	227	9.32	236	10.5	243	11.7	251	12.8	258	14.0	271	16.4	283	18.9	296	21.5
63,733	1700	222	8.36	230	9.28	238	10.4	246	11.8	252	13.0	260	14.3	267	15.5	280	18.1	292	20.7	304	23.4
67,482	1800	233	9.61	241	10.8	248	11.8	256	13.1	262	14.5	269	15.8	276	17.2	289	19.8	301	22.5	312	25.3
71,231	1900	244	11.0	252	12.3	259	13.4	266	14.6	273	16.1	279	17.5	285	18.9	299	21.7	310	24.5	321	27.4
74,980	2000	256	12.5	262	13.9	269	15.2	277	16.3	283	17.8	289	19.3	295	20.8	308	23.7	320	26.6	330	29.6
78,729	2100	267	14.2	273	15.7	280	17.0	287	18.1	294	19.5	299	21.2	305	22.7	317	25.9	329	29.0	339	32.1
82,478	2200	278	16.1	285	17.6	291	19.0	297	20.2	304	21.6	310	23.2	315	24.9	327	28.1	338	31.4	348	34.6
86,227	2300	290	18.3	296	19.6	302	20.3	308	22.5	314	23.9	320	25.3	325	27.1	336	30.6	347	34.0	358	37.4
89,976	2400	301	20.7	308	21.9	313	23.5	319	25.0	325	26.5	331	27.8	336	29.5	346	33.3	357	36.7	367	40.3
93,725	2500	313	23.0	319	24.3	325	26.0	330	27.6	336	29.2	341	30.5	346	32.1	357	36.0	367	39.5	377	43.4
97,474	2600	325	25.5	330	26.8	336	28.7	341	30.3	346	32.0	352	33.6	357	34.9	367	38.9	377	42.7	386	46.5
101,223	2700	337	27.9	342	29.4	347	31.6	352	33.6	357	35.0	362	36.8	367	38.2	378	41.8	387	45.9	396	50.0
104,972	2800	349	30.4	353	32.5	359	34.6	363	36.7	368	38.4	373	40.0	378	41.8	388	44.9	397	49.5	406	53.3
108,721	2900	361	33.3	365	35.9	370	37.7	374	40.0	379	41.9	384	43.3	388	45.3	398	48.5	408	52.9	416	57.2
112,470	3000	372	36.7	377	39.5	381	41.3	386	43.4	390	45.6	395	46.7	399	49.5	409	52.9	418	56.2	426	61.5
116,219	3100	384	40.2	388	43.1	393	45.1	397	47.0	402	49.5	406	50.9	410	53.3	419	57.2	429	60.6	437	65.4
119,968	3200	395	43.6	399	46.9	404	49.0	409	50.9	413	53.3	418	55.8	422	57.7	430	61.5	439	64.9	447	69.7



CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
52,486	1400	294	20.4	306	22.8	318	25.3	340	30.5	362	36.0	385	41.7	407	47.6	426	53.3	446	59.6	463	65.8
56,235	1500	300	22.2	313	24.6	324	27.2	346	32.5	367	38.1	388	44.1	409	50.0	428	56.2	448	63.0	466	69.2
59,984	1600	308	24.0	320	26.6	331	29.3	352	34.7	372	40.5	392	46.5	412	52.9	431	59.1	451	65.8	469	72.6
63,733	1700	315	26.0	327	28.7	338	31.5	359	37.1	378	43.0	396	49.0	417	55.8	435	62.0	454	69.2	472	75.9
67,482	1800	324	28.1	334	31.0	345	33.9	366	39.7	384	45.7	403	51.9	422	58.6	439	65.4	457	72.6	475	79.8
71,231	1900	332	30.3	342	33.4	353	36.4	373	42.4	391	48.5	409	55.3	428	62.0	444	68.7	461	75.9	478	83.1
74,980	2000	341	32.6	351	35.8	361	39.1	379	45.4	398	51.9	417	58.2	433	65.4	450	72.1	465	79.3	483	87.0
78,729	2100	350	35.2	359	38.4	369	41.7	387	48.5	405	55.3	424	62.0	440	68.7	457	75.9	472	83.1	488	90.8
82,478	2200	359	37.8	368	41.2	378	44.6	395	51.9	413	58.6	431	65.4	446	72.6	463	80.3	478	87.5	493	95.2
86,227	2300	368	40.6	378	44.2	386	47.7	404	54.8	421	62.0	438	69.2	454	76.9	470	84.6	485	91.8	500	100.0
89,976	2400	377	43.8	387	47.2	396	50.9	413	58.2	430	65.8	446	73.5	461	81.2	477	88.9	492	96.6	506	104.8
93,725	2500	386	47.1	396	50.5	405	54.3	422	62.0	438	69.7	454	77.9	468	86.0	484	93.7	498	101.9	513	110.1
97,474	2600	396	50.5	405	54.3	414	58.2	430	65.8	446	73.5	462	82.2	477	90.4	492	98.5	505	106.7	520	115.3
101,223	2700	405	53.8	415	57.7	423	62.0	440	69.7	455	77.9	471	86.5	485	95.2	499	103.8	513	112.0	527	120.6
104,972	2800	415	57.7	424	61.5	432	65.8	449	74.0	464	82.7	480	91.3	493	100.0	508	109.1	521	117.8	534	126.4
108,721	2900	425	61.5	433	65.8	441	70.2	458	78.8	473	87.0	489	95.6	502	104.8	516	114.4	530	123.5	542	132.7
112,470	3000	435	65.8	443	70.2	451	74.5	468	83.6	483	91.8	498	100.9	510	113.9	525	119.7	538	129.3	551	138.9
116,219	3100	445	69.7	453	74.5	461	79.3	477	88.4	492	97.6	507	106.7	519	118.7	533	125.4	546	135.5	559	145.1
119,968	3200	455	74.5	463	78.8	471	84.1	486	93.2	502	102.9	516	112.0	529	123.5	542	131.7	554	141.3	567	151.4
123,717	3300	465	79.3	473	84.1	481	88.9	496	98.5	511	108.6	525	118.2	538	128.8	551	137.9	564	147.6	576	158.1
127,466	3400	476	84.1	483	89.4	491	94.2	505	104.3	520	114.4	534	124.0	547	134.1	560	144.7	572	154.8	584	165.3
131,215	3500	487	88.9	493	94.7	501	100.0	515	110.1	529	120.6	543	130.7	556	140.8	570	151.4	582	162.0		
134,964	3600	497	94.7	504	99.5	511	105.7	525	115.8	538	126.9	552	137.5	566	148.0	580	158.6	593	169.2		
142,462	3800	517	106.7	525	112.0	532	116.8	546	128.8	558	139.9	572	151.4	584	162.9	597	173.0	609	184.6		
149,960	4000	539	121.6	546	125.4	553	130.2	566	143.2	579	153.8	591	166.3	603	178.3	616	189.8				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1780

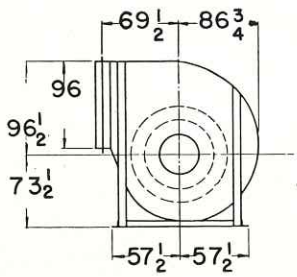
Buffalo Single Inlet Limit-Load Type "BL" Fans

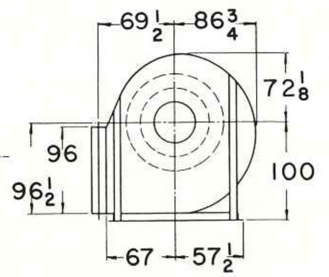
REG. U.S. PAT. OFF.

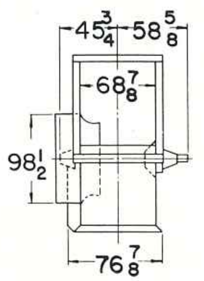
SIZE 1780

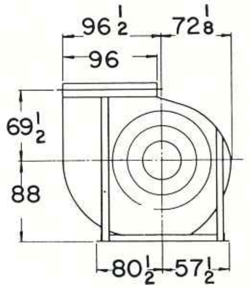
Wheel Diameter 89″. Limit Load H.P. = 1347.4 x $\left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 45.54 sq. ft. inside.

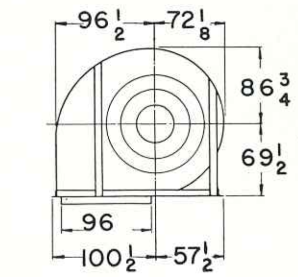
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36,432	800	117	2.10	129	2.86	140	3.62	150	4.44	159	5.25	169	6.13	178	7.06	196	8.99	213	11.0	227	13.1
40,986	900	125	2.63	137	3.44	147	4.26	157	5.14	166	6.01	175	6.95	183	7.88	199	9.93	215	12.0	229	14.2
45,540	1000	134	3.15	145	4.03	154	4.96	164	5.96	172	6.89	181	7.88	189	8.87	204	11.0	219	13.2	232	15.5
50,094	1100	142	3.85	153	4.73	163	5.78	171	6.77	179	7.82	188	8.93	196	9.93	210	12.1	224	14.5	237	16.9
54,648	1200	152	4.44	162	5.55	171	6.66	179	7.71	187	8.87	195	9.98	202	11.2	217	13.5	229	15.9	242	18.5
59,202	1300	162	5.31	170	6.48	179	7.65	188	8.82	196	9.98	203	11.2	210	12.4	223	14.9	236	17.5	249	20.1
63,756	1400	171	6.36	180	7.47	188	8.76	196	10.0	204	11.2	210	12.5	217	13.8	230	16.5	242	19.3	255	22.0
68,310	1500	181	7.47	190	8.58	197	9.98	205	11.3	212	12.7	219	14.0	225	15.4	238	18.2	250	21.1	261	24.0
72,864	1600	191	8.70	199	9.87	206	11.3	214	12.7	220	14.2	227	15.6	234	17.0	246	20.0	257	23.0	268	26.1
77,418	1700	201	10.2	209	11.3	216	12.7	223	14.3	229	15.8	236	17.4	242	18.8	254	22.0	265	25.1	276	28.4
81,972	1800	211	11.7	218	13.1	225	14.3	232	15.9	238	17.6	244	19.2	251	20.8	263	24.1	273	27.3	283	30.7
86,526	1900	222	13.3	228	14.9	235	16.2	241	17.7	247	19.6	253	21.3	260	23.0	271	26.3	282	29.7	291	33.3
91,080	2000	232	15.2	238	16.9	244	18.5	251	19.8	257	21.6	263	23.4	268	25.3	280	28.8	290	32.3	299	35.9
95,634	2100	242	17.3	248	19.1	254	20.7	260	22.0	266	23.7	272	25.8	277	27.6	288	31.5	298	35.2	308	38.9
100,188	2200	253	19.6	258	21.4	264	23.1	270	24.5	275	26.3	281	28.2	286	30.3	297	34.2	307	38.1	316	42.0
104,742	2300	263	22.2	269	23.8	274	25.8	280	27.3	285	29.0	290	30.7	295	32.9	305	37.2	315	41.3	325	45.5
109,296	2400	273	25.1	279	26.6	284	28.6	290	30.4	294	32.2	300	33.7	305	35.8	314	40.4	324	44.6	333	49.0
113,850	2500	284	28.0	289	29.5	294	31.6	299	33.6	304	35.5	309	37.1	314	39.0	323	43.8	333	47.9	342	52.7
118,404	2600	295	30.9	299	32.6	305	34.9	309	36.8	314	38.8	319	40.9	324	42.4	333	47.2	342	51.8	350	56.5
122,958	2700	306	33.9	310	35.7	316	38.4	319	40.8	324	42.6	328	44.7	333	46.4	343	50.7	351	55.8	359	60.7
127,512	2800	316	37.0	321	39.5	326	42.0	330	44.6	334	46.7	338	48.6	343	50.8	352	54.6	360	60.1	368	64.8
132,066	2900	327	40.4	331	43.6	336	45.8	340	48.6	344	50.9	348	52.6	352	55.1	362	59.0	370	64.2	378	69.5
136,620	3000	338	44.6	342	47.9	346	50.2	350	52.7	354	55.4	359	56.7	362	60.1	371	64.2	379	68.3	387	74.7
141,174	3100	348	48.8	352	52.4	356	54.8	360	57.0	364	60.1	369	61.9	372	64.8	380	69.5	389	73.6	396	79.4
145,728	3200	359	53.0	362	56.9	367	59.6	371	61.9	375	64.8	379	67.7	383	70.1	390	74.7	398	78.8	406	84.7











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
63,756	1400	266	24.8	278	27.7	289	30.7	308	37.0	329	43.7	350	50.7	369	57.8	386	64.8	404	72.4	420	80.0
68,310	1500	272	26.9	284	29.9	294	33.0	314	39.5	333	46.3	352	53.5	371	60.7	389	68.3	407	76.5	423	84.1
72,864	1600	279	29.2	290	32.3	300	35.6	320	42.2	337	49.2	356	56.5	374	64.2	391	71.8	409	80.0	426	88.2
77,418	1700	286	31.6	297	34.9	307	38.2	326	45.0	343	52.2	360	59.6	379	67.7	395	75.3	412	84.1	428	92.3
81,972	1800	294	34.2	303	37.7	313	41.2	332	48.2	349	55.5	365	63.1	383	71.2	398	79.4	414	88.2	431	96.9
86,526	1900	301	36.8	311	40.6	320	44.3	338	51.5	355	59.0	372	67.1	388	75.3	403	83.5	418	92.3	434	101.0
91,080	2000	309	39.6	318	43.5	327	47.5	344	55.1	361	63.1	378	70.6	393	79.4	408	87.6	422	96.3	438	105.7
95,634	2100	317	42.7	326	46.7	335	50.7	351	59.0	368	67.1	385	75.3	399	83.5	414	92.3	428	101.0	443	110.4
100,188	2200	326	45.9	334	50.1	343	54.2	359	63.1	375	71.2	391	79.4	405	88.2	420	97.5	434	106.3	448	115.6
104,742	2300	334	49.3	343	53.7	350	57.9	367	66.6	382	75.3	397	84.1	412	93.4	426	102.8	440	111.5	454	121.4
109,296	2400	342	53.2	351	57.3	359	61.9	374	70.6	390	80.0	405	89.3	418	98.7	433	108.0	446	117.4	459	127.3
113,850	2500	350	57.2	359	61.3	367	66.0	383	75.3	398	84.7	412	94.6	425	104.5	439	113.9	452	123.8	466	133.7
118,404	2600	359	61.3	367	66.0	376	70.6	391	80.0	405	89.3	420	99.8	432	109.8	446	119.7	459	129.6	472	140.1
122,958	2700	368	65.4	376	70.1	384	75.3	399	84.7	413	94.6	427	105.1	440	115.6	453	126.1	466	136.0	478	146.6
127,512	2800	377	70.1	384	74.7	392	80.0	408	89.9	421	100.4	435	110.9	448	121.4	461	132.5	473	143.1	485	153.6
132,066	2900	386	74.7	393	80.0	401	85.2	416	95.8	430	105.7	444	116.2	456	127.3	468	139.0	480	150.1	492	161.2
136,620	3000	395	80.0	402	85.2	409	90.5	425	101.6	438	111.5	451	122.6	463	138.4	476	145.4	488	157.1	500	168.7
141,174	3100	404	84.7	411	90.5	418	96.3	433	107.4	447	118.5	460	129.6	471	144.2	484	152.4	495	164.7	508	176.3
145,728	3200	413	90.5	420	95.8	427	102.2	441	113.3	455	125.0	468	136.0	480	150.1	492	160.0	503	171.7	515	183.9
150,282	3300	422	96.3	429	102.2	436	108.0	450	119.7	463	132.0	476	143.6	488	156.5	500	167.6	512	179.3	522	192.1
154,836	3400	432	102.2	438	108.6	445	114.4	459	126.7	471	139.0	485	150.6	497	162.9	508	175.7	519	188.0	530	200.9
159,390	3500	442	108.0	448	113.2	454	121.4	468	133.7	480	146.6	493	158.8	505	171.1	517	183.9	528	196.8		
163,944	3600	451	115.0	458	120.9	463	128.5	477	140.7	488	154.1	501	167.0	513	179.8	526	192.7	538	205.5		
173,052	3800	469	129.6	476	136.0	483	141.9	495	156.5	507	170.0	519	183.9	530	197.9	542	210.2	553	224.2		
182,160	4000	489	147.7	495	152.4	502	158.2	513	174.0	525	186.8	536	202.0	547	216.6	559	230.6				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1965

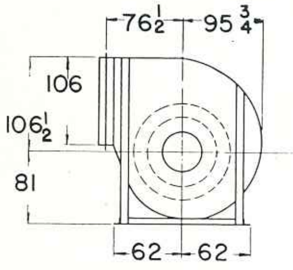
Buffalo Single Inlet Limit-Load Type "BL" Fans

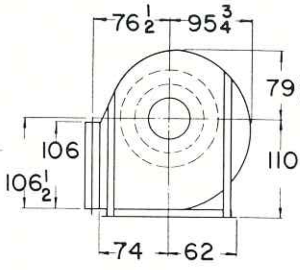
REG. U.S. PAT. OFF.

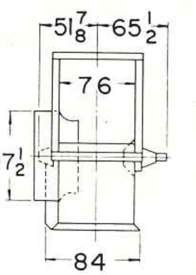
SIZE 1965

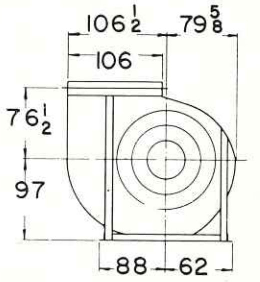
Wheel Diameter 98¼″. Limit Load H.P. = 2209.0 x $\left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 55.50 sq. ft. inside.

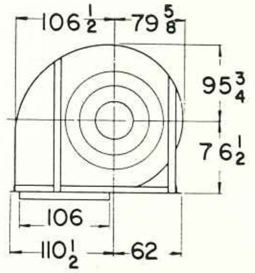
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44,400	800	106	2.56	117	3.49	126	4.41	136	5.41	144	6.40	153	7.47	161	8.61	177	11.0	193	13.4	206	15.9
49,950	900	113	3.20	124	4.20	133	5.19	142	6.26	150	7.33	158	8.47	166	9.61	180	12.1	195	14.7	208	17.4
55,500	1000	121	3.84	131	4.91	140	6.05	148	7.26	156	8.40	164	9.61	171	10.8	185	13.4	198	16.1	210	18.9
61,050	1100	129	4.70	139	5.76	147	7.04	155	8.25	162	9.53	170	10.9	177	12.1	191	14.8	203	17.6	214	20.6
66,600	1200	138	5.41	147	6.76	155	8.11	162	9.39	170	10.8	177	12.2	183	13.6	196	16.4	208	19.4	219	22.5
72,150	1300	147	6.48	154	7.89	162	9.32	170	10.7	177	12.2	183	13.7	190	15.2	202	18.2	213	21.3	225	24.5
77,700	1400	155	7.76	163	9.11	170	10.7	177	12.2	185	13.7	191	15.2	197	16.9	209	20.1	219	23.5	231	26.8
83,250	1500	164	9.11	172	10.5	179	12.2	185	13.8	192	15.4	198	17.0	204	18.7	216	22.1	226	25.7	237	29.2
88,800	1600	173	10.6	180	12.0	187	13.8	194	15.5	200	17.3	206	19.0	212	20.7	222	24.3	233	28.0	243	31.8
94,350	1700	182	12.4	189	13.7	195	15.4	202	17.4	207	19.3	213	21.2	219	22.9	230	26.8	240	30.6	250	34.6
99,900	1800	191	14.2	198	15.9	204	17.4	210	19.4	216	21.5	221	23.4	227	25.4	238	29.3	247	33.3	257	37.4
105,450	1900	201	16.2	207	18.1	213	19.8	219	21.6	224	23.8	230	25.9	235	28.0	245	32.1	255	36.2	264	40.6
111,000	2000	210	18.6	216	20.6	221	22.5	227	24.1	233	26.3	238	28.5	243	30.8	253	35.1	263	39.3	271	43.8
116,550	2100	219	21.1	225	23.3	230	25.2	236	26.8	241	28.9	246	31.5	251	33.7	261	38.4	270	42.9	279	47.5
122,100	2200	229	23.9	234	26.1	239	28.1	244	29.9	250	32.0	254	34.4	259	36.9	269	41.6	278	46.5	286	51.2
127,650	2300	238	27.0	244	29.0	248	31.5	253	33.3	258	35.4	263	37.4	268	40.1	277	45.3	285	50.3	294	55.4
133,200	2400	248	30.6	253	32.4	257	34.8	262	37.1	267	39.2	272	41.1	276	43.6	285	49.2	293	54.4	302	59.7
138,750	2500	257	34.1	262	36.0	267	38.5	271	40.9	276	43.3	280	45.2	285	47.5	293	53.4	301	58.4	310	64.2
144,300	2600	267	37.7	271	39.7	276	42.5	280	44.8	285	47.3	289	49.8	293	51.7	302	57.6	310	63.2	317	68.9
149,850	2700	277	41.3	281	43.5	286	46.7	289	49.7	293	51.9	297	54.5	302	56.5	310	61.8	318	68.0	325	74.0
155,400	2800	287	45.0	290	48.1	295	51.2	299	54.3	303	56.9	307	59.2	311	61.9	319	66.5	326	73.3	334	79.0
160,950	2900	296	49.2	300	53.1	304	55.9	308	59.2	312	62.0	316	64.1	319	67.1	327	71.9	335	78.3	342	84.7
166,500	3000	306	54.4	310	58.4	313	61.1	317	64.2	321	67.5	325	69.1	328	73.3	336	78.3	344	83.3	350	91.1
172,050	3100	316	59.5	319	63.8	323	66.8	326	69.5	330	73.3	334	75.4	337	79.0	344	84.7	352	89.7	359	96.8
177,600	3200	325	64.6	328	69.4	332	72.6	336	75.4	340	79.0	343	76.8	347	85.4	353	91.1	361	96.1	367	103.2











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
77,700	1400	241	30.2	252	33.7	262	37.4	279	45.1	298	53.3	317	61.8	334	70.4	350	79.0	366	88.2	381	97.5
83,250	1500	247	32.8	257	36.4	266	40.3	284	48.1	301	56.4	319	65.2	336	74.0	352	83.3	368	93.2	383	102.5
88,800	1600	253	35.6	263	39.4	272	43.3	290	51.4	305	59.9	322	68.8	338	78.3	355	87.5	371	97.5	386	107.4
94,350	1700	259	38.6	269	42.5	278	46.6	295	54.9	310	63.6	326	72.6	343	82.5	358	91.8	373	102.5	388	112.4
99,900	1800	266	41.6	275	45.9	284	50.2	301	58.8	316	67.7	331	76.8	347	86.8	360	96.8	375	107.4	390	118.1
105,450	1900	273	44.8	281	49.5	290	53.9	306	62.8	322	71.9	337	81.8	352	91.8	365	101.8	379	112.4	393	123.1
111,000	2000	280	48.2	288	53.0	296	57.8	312	67.2	327	76.8	343	86.1	356	96.8	370	106.7	382	117.4	397	128.8
116,550	2100	287	52.1	295	56.9	303	61.8	318	71.9	333	81.8	349	91.8	361	101.8	375	112.4	388	123.1	401	134.5
122,100	2200	295	55.9	302	61.1	310	66.0	325	76.8	340	86.8	354	96.8	367	107.4	380	118.8	393	129.5	406	140.9
127,650	2300	302	60.1	311	65.4	317	70.6	332	81.1	346	91.8	360	102.5	373	113.8	386	125.2	399	135.9	411	148.0
133,200	2400	310	64.9	318	69.9	325	75.4	339	86.1	353	97.5	367	108.9	379	120.3	392	131.6	404	143.0	416	155.1
138,750	2500	317	69.7	325	74.7	333	80.4	347	91.8	360	103.2	373	115.3	385	127.4	398	138.8	410	150.8	422	162.9
144,300	2600	325	74.7	333	80.4	340	86.1	354	97.5	367	108.9	380	121.7	392	133.8	404	145.9	415	158.0	427	170.8
149,850	2700	333	79.7	341	85.4	348	91.8	361	103.2	374	115.3	387	128.1	398	140.9	410	153.7	422	165.8	433	178.6
155,400	2800	341	85.4	348	91.1	355	97.5	369	109.6	382	122.4	394	135.2	406	148.0	417	161.5	428	174.3	439	187.1
160,950	2900	349	91.1	356	97.5	363	103.9	377	116.7	389	128.8	402	141.6	413	155.1	424	169.3	435	182.9	446	196.4
166,500	3000	358	97.5	364	104.0	371	110.3	385	123.8	397	135.9	409	149.4	419	168.6	431	177.2	442	191.4	452	205.6
172,050	3100	366	103.2	372	110.3	379	117.4	392	130.9	404	144.4	416	158.0	427	175.8	438	185.7	449	200.7	459	214.9
177,600	3200	374	110.3	380	116.7	387	124.5	400	138.0	412	152.3	424	165.8	434	182.9	445	195.0	456	209.2	466	224.1
183,150	3300	382	117.4	389	124.5	395	131.6	407	145.9	420	160.8	431	175.0	442	190.7	453	204.2	463	218.4	473	234.1
188,700	3400	391	124.5	397	132.3	403	139.5	415	154.4	427	169.3	439	183.6	450	198.5	460	214.2	471	229.1	480	244.8
194,250	3500	400	131.6	406	140.2	412	148.0	424	162.9	435	178.6	446	193.5	457	208.5	468	224.1	478	239.8		
199,800	3600	409	140.2	415	147.3	420	156.5	432	171.5	442	187.8	454	203.5	465	219.2	477	234.8	487	250.5		
210,900	3800	425	158.0	431	165.8	437	172.9	448	190.7	459	207.1	470	224.1	480	241.2	491	256.1	501	273.2		
222,000	4000	443	180.0	448	185.7	454	192.8	465	212.0	476	227.7	486	246.2	495	264.0	506	281.1				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 2175

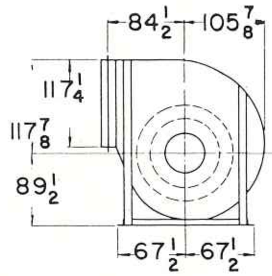
Buffalo Single Inlet Limit-Load Type "BL" Fans

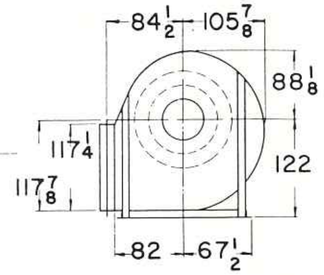
REG. U.S. PAT. OFF.

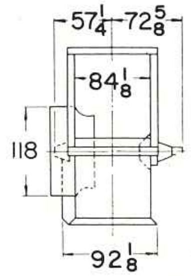
SIZE 2175

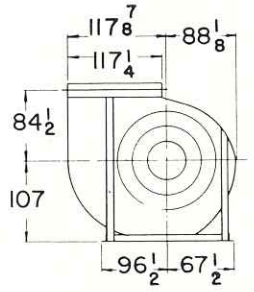
Wheel Diameter 108¾″. Limit Load H.P. $= 3670.2 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 68.00 sq. ft. inside.

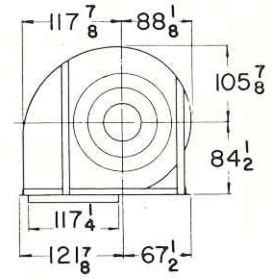
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
54,400	800	96	3.14	105	4.27	114	5.40	123	6.63	130	7.85	138	9.15	146	10.5	160	13.4	174	16.5	186	19.5
61,200	900	102	3.92	112	5.14	120	6.36	128	7.67	136	8.98	143	10.4	150	11.8	163	14.8	176	18.0	188	21.3
68,000	1000	109	4.71	119	6.02	126	7.41	134	8.89	141	10.3	148	11.8	155	13.3	167	16.4	179	19.7	190	23.2
74,800	1100	116	5.75	125	7.06	133	8.63	140	10.1	147	11.7	154	13.3	160	14.8	172	18.1	183	21.6	194	25.3
81,600	1200	124	6.63	133	8.28	140	9.94	147	11.5	153	13.3	160	14.9	165	16.7	177	20.1	188	23.7	198	27.5
88,400	1300	133	7.93	139	9.68	147	11.4	154	13.2	160	14.9	166	16.7	172	18.6	183	22.3	193	26.2	203	30.0
95,200	1400	140	9.50	147	11.2	154	13.1	160	15.0	167	16.7	172	18.7	178	20.7	188	24.7	198	28.8	208	32.8
102,000	1500	148	11.2	155	12.8	161	14.9	167	16.9	174	18.9	179	20.8	184	22.9	195	27.1	204	31.5	214	35.8
108,800	1600	157	13.0	163	14.7	169	16.9	175	19.0	180	21.2	186	23.3	192	25.4	201	29.8	211	34.3	220	39.0
115,600	1700	165	15.2	171	16.8	177	18.9	182	21.4	187	23.6	193	26.0	198	28.1	208	32.8	217	37.5	226	42.4
122,400	1800	173	17.4	179	19.5	184	21.4	190	23.8	195	26.3	200	28.7	205	31.1	215	35.9	223	40.8	232	45.9
129,200	1900	181	19.9	187	22.2	192	24.2	198	26.4	202	29.2	207	31.7	212	34.3	222	39.3	231	44.4	238	49.7
136,000	2000	190	22.9	195	25.3	200	27.5	205	29.6	210	32.3	215	35.0	219	37.7	229	43.0	237	48.2	245	53.6
142,800	2100	198	25.8	203	28.5	208	30.9	213	32.9	218	35.4	222	38.5	227	41.2	236	47.0	244	52.6	252	58.1
149,600	2200	207	29.3	212	32.0	216	34.4	221	36.6	225	39.2	230	42.1	234	45.2	243	51.0	251	56.9	259	62.8
156,400	2300	215	33.1	220	35.6	224	38.5	229	40.8	233	43.3	238	45.9	242	49.2	250	55.5	258	61.6	266	67.9
163,200	2400	224	37.5	228	39.7	233	42.6	237	45.4	241	48.0	245	50.4	250	53.4	257	60.3	265	66.6	273	73.1
170,000	2500	233	41.8	237	44.1	241	47.2	245	50.1	249	53.0	253	55.4	257	58.2	265	65.4	272	71.6	280	78.6
176,800	2600	241	46.2	245	48.6	250	52.0	253	54.9	257	58.0	261	61.0	265	63.4	273	70.5	280	77.4	287	84.4
183,600	2700	250	50.6	254	53.4	258	57.3	261	60.9	265	63.6	269	66.8	273	69.2	280	75.8	287	83.3	294	90.7
190,400	2800	259	55.2	262	58.9	266	62.8	270	66.5	274	69.7	277	72.5	281	75.8	288	81.5	295	89.8	301	96.8
197,200	2900	268	60.3	271	65.0	275	68.4	278	72.5	282	76.0	285	78.5	288	82.2	296	88.0	303	95.9	309	103.7
204,000	3000	276	66.6	280	71.6	283	74.9	286	78.6	290	82.7	293	84.6	297	89.8	303	95.9	311	102.0	317	111.6
210,800	3100	285	72.9	288	78.2	292	81.9	295	85.2	298	89.8	302	92.4	305	96.8	311	103.7	318	109.8	324	118.6
217,600	3200	294	79.2	297	85.0	300	88.9	303	92.4	307	96.8	310	101.1	313	104.6	319	111.6	326	117.7	332	126.4











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
95,200	1400	218	37.0	227	41.3	236	45.9	252	55.3	269	65.3	286	75.6	302	86.3	316	96.8	331	108.1	344	119.4
102,000	1500	223	40.2	233	44.6	240	49.3	257	58.9	272	69.1	288	79.9	303	90.7	318	102.0	333	114.2	346	125.5
108,800	1600	228	43.6	238	48.3	245	53.1	262	62.9	276	73.4	291	84.3	306	95.9	320	107.2	335	119.4	348	131.6
115,600	1700	234	47.2	243	52.0	251	57.1	266	67.2	280	77.9	294	88.9	310	101.1	323	112.5	337	125.5	351	137.7
122,400	1800	240	51.0	248	56.2	256	61.5	272	72.0	285	82.9	299	94.2	314	106.4	326	118.6	339	131.6	353	144.7
129,200	1900	246	54.9	254	60.6	262	66.1	277	76.9	291	88.0	304	100.3	318	112.5	330	124.7	342	137.7	355	150.8
136,000	2000	253	59.1	260	64.9	268	70.9	282	82.3	296	94.2	310	105.5	322	118.6	334	130.8	345	143.8	358	157.8
142,800	2100	260	63.8	266	69.7	274	75.7	287	88.0	301	100.3	315	112.5	326	124.7	339	137.7	350	150.8	362	164.8
149,600	2200	266	68.5	273	74.8	280	80.9	294	94.2	307	106.4	320	118.6	332	131.6	344	145.6	355	158.7	366	172.6
156,400	2300	273	73.7	281	80.1	287	86.5	300	99.4	313	112.5	325	125.5	337	139.5	349	153.4	360	166.5	371	181.3
163,200	2400	280	79.5	287	85.6	294	92.4	306	105.5	319	119.4	331	133.4	342	147.3	354	161.3	365	175.2	376	190.0
170,000	2500	287	85.3	294	91.5	301	98.5	314	112.5	325	126.4	337	141.2	348	156.0	360	170.0	370	184.8	381	199.6
176,800	2600	294	91.5	301	98.5	307	105.5	320	119.4	332	133.4	343	149.1	354	163.9	365	178.7	375	193.5	386	209.2
183,600	2700	301	97.6	308	104.6	314	112.5	326	126.4	338	141.2	350	156.9	360	172.6	371	188.3	381	203.1	391	218.8
190,400	2800	308	104.6	315	111.6	321	119.4	334	134.3	345	149.9	356	165.6	366	181.3	377	197.9	387	213.6	397	229.3
197,200	2900	316	111.6	322	119.4	328	127.3	340	143.0	352	157.8	363	173.5	373	190.0	383	207.5	393	224.0	403	240.6
204,000	3000	323	119.4	329	127.3	335	135.1	347	151.7	359	166.5	370	183.1	379	206.6	390	217.1	399	234.5	409	251.9
210,800	3100	331	126.4	336	135.1	342	143.8	354	160.4	365	177.0	376	193.5	386	215.3	396	227.5	405	245.8	415	263.3
217,600	3200	338	135.1	344	143.0	350	152.6	361	169.1	373	186.6	383	203.1	393	224.0	402	238.9	412	256.3	421	274.6
224,400	3300	345	143 8	351	152.6	357	161.3	368	178.7	379	197.0	390	214.5	399	233.6	409	250.2	419	267.6	427	286.8
231,200	3400	354	152.6	359	162.1	364	170.9	375	189.2	386	207.5	397	224.9	406	243.2	416	262.4	425	280.7	434	299.9
238,000	3500	361	161.3	366	171.7	372	181.3	383	199.6	393	218.8	403	237.1	413	255.4	423	274.6	432	293.8		
244,800	3600	369	171.7	375	180.5	379	191.8	390	210.1	400	230.1	410	249.3	420	268.5	431	287.7	440	306.9		
258,400	3800	384	193.5	390	203.1	395	211.8	405	233.6	415	253.7	424	274.6	434	295.5	443	313.8	453	334.8		
272,000	4000	400	220.6	405	227.5	411	236.2	420	259.8	430	279.0	439	301.6	447	323.4	457	344.3				

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 365

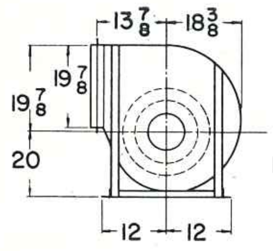
Buffalo Double Inlet Limit-Load Type "BL" Fans

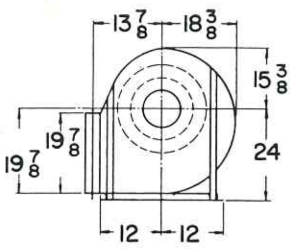
REG. U.S. PAT. OFF.

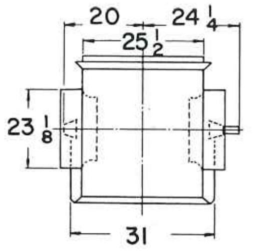
SIZE 365

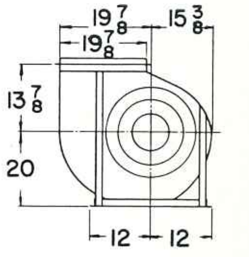
Wheel Diameter 18¼″. Limit Load H.P. $= 1.05 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 3.42 sq. ft. inside.

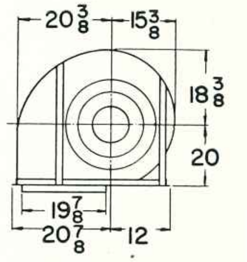
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2,736	800	559	.19	617	.24	672	.32	725	.37	773	.45	816	.55	858	.62	941	.82	1033	1.03	1120	1.24
3,078	900	601	.23	654	.28	703	.35	753	.43	801	.50	845	.59	879	.69	958	.89	1037	1.09	1123	1.32
3,420	1000	641	.27	693	.34	747	.41	787	.50	831	.57	877	.66	910	.76	981	.95	1057	1.17	1129	1.41
3,762	1100	685	.32	733	.42	779	.49	824	.58	862	.65	903	.74	942	.83	1011	1.04	1081	1.25	1149	1.49
4,104	1200	723	.39	774	.48	818	.57	859	.66	898	.74	934	.84	976	.93	1045	1.13	1111	1.36	1172	1.59
4,446	1300	765	.46	815	.56	859	.67	897	.77	935	.85	972	.94	1007	1.04	1074	1.24	1143	1.46	1198	1.71
4,788	1400	810	.53	871	.66	899	.76	937	.85	973	.97	1011	1.08	1049	1.16	1108	1.37	1171	1.61	1230	1.85
5,130	1500	858	.61	897	.75	939	.86	977	.97	1012	1.08	1050	1.20	1082	1.30	1143	1.53	1201	1.76	1260	1.99
5,742	1600	899	.73	941	.85	982	.97	1018	1.09	1055	1.21	1089	1.32	1117	1.46	1180	1.69	1240	1.94	1292	2.19
5,814	1700	946	.84	985	.97	1023	1.12	1059	1.22	1095	1.37	1128	1.48	1157	1.61	1217	1.87	1279	2.11	1323	2.38
6,156	1800	991	.96	1030	1.10	1065	1.26	1099	1.39	1135	1.51	1167	1.66	1198	1.79	1255	2.04	1314	2.30	1364	2.58
6,498	1900	1039	1.09	1076	1.24	1112	1.38	1140	1.54	1177	1.68	1209	1.83	1240	1.97	1294	2.25	1347	2.53	1402	2.82
6,840	2000	1084	1.22	1120	1.39	1157	1.52	1185	1.72	1213	1.89	1250	2.01	1279	2.17	1332	2.47	1387	2.77	1435	3.10
7,182	2100	1133	1.36	1166	1.57	1199	1.71	1231	1.91	1258	2.10	1292	2.22	1321	2.37	1375	2.65	1426	3.01	1472	3.32
7,524	2200	1180	1.53	1211	1.75	1245	1.92	1277	2.10	1303	2.27	1330	2.47	1363	2.58	1415	2.92	1466	3.27	1514	3.59
7,866	2300	1228	1.71	1257	1.95	1288	2.11	1319	2.32	1347	2.50	1371	2.71	1403	2.88	1457	3.17	1508	3.52	1551	3.89
8,208	2400	1278	1.94	1304	2.14	1336	2.35	1363	2.52	1394	2.71	1415	2.94	1441	3.14	1498	3.45	1549	3.81	1594	4.19
8,550	2500	1318	2.22	1354	2.34	1380	2.59	1409	2.75	1438	2.96	1460	3.21	1486	3.42	1538	3.74	1588	4.19	1633	4.49
8,892	2600	1364	2.52	1403	2.58	1428	2.82	1455	3.03	1481	3.23	1508	3.45	1532	3.70	1580	4.09	1627	4.48	1675	4.87
9,234	2700	1413	2.68	1447	2.85	1471	3.12	1500	3.31	1525	3.39	1554	3.74	1578	3.97	1625	4.41	1669	4.79	1717	5.24
9,576	2800	1463	2.94	1499	3.10	1520	3.36	1546	3.59	1573	3.67	1597	4.07	1621	4.25	1665	4.78	1709	5.15	1754	5.64
9,918	2900	1512	3.12	1538	3.51	1569	3.64	1595	3.93	1618	4.17	1642	4.44	7668	4.58	1711	5.16	1751	5.59	1794	6.00
10,260	3000	1563	3.30	1584	3.91	1618	3.94	1640	4.27	1663	4.50	1686	4.82	1712	4.97	1754	5.44	1793	6.06	1835	6.35
10,602	3100	1613	3.54	1653	4.26	1665	4.28	1685	4.58	1708	4.88	1732	5.11	1754	5.36	1800	5.84	1836	6.45	1875	6.88
10,944	3200	1664	3.79	1682	4.64	1712	4.73	1734	4.93	1755	5.25	1777	5.48	1799	5.76	1843	6.27	1881	6.86	1920	7.32











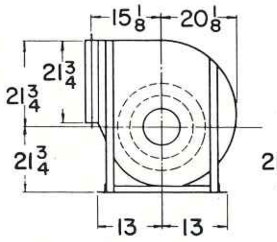
CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4,788	1400	1285	2.10	1337	2.39	1383	2.68	1488	3.29	1584	3.91	1680	4.59	1780	5.35	1888	6.12	1968	6.89	2055	7.68
5,130	1500	1319	2.25	1362	2.54	1420	2.82	1507	3.46	1603	4.11	1694	4.83	1799	5.56	1889	6.28	1970	7.10	2056	7.93
5,742	1600	1348	2.44	1397	2.73	1452	3.01	1538	3.65	1629	4.30	1709	5.03	1801	5.74	1890	6.49	1975	7.32	2059	8.22
5,814	1700	1377	2.62	1431	2.92	1477	3.20	1570	3.87	1658	4.50	1738	5.25	1804	5.97	1893	6.81	1981	7.57	2062	8.45
6,156	1800	1412	2.87	1463	3.12	1504	3.42	1598	4.07	1687	4.75	1766	5.48	1837	6.21	1912	7.03	1997	7.84	2064	8.72
6,498	1900	1449	3.11	1495	3.38	1540	3.68	1631	4.31	1717	5.01	1796	5.73	1863	6.45	1929	7.32	2012	8.15	2085	9.02
6,840	2000	1485	3.35	1530	3.65	1573	3.96	1665	4.60	1746	5.26	1825	6.05	1896	6.77	1966	7.62	2039	8.48	2107	9.36
7,182	2100	1518	3.64	1569	3.94	1610	4.25	1701	4.91	1779	5.57	1850	6.29	1925	7.11	2000	7.95	2069	8.83	2125	9.70
7,524	2200	1558	3.94	1605	4.24	1645	4.53	1728	5.20	1807	5.90	1884	6.67	1958	7.46	2033	8.28	2098	9.15	2155	10.1
7,866	2300	1596	4.22	1636	4.55	1684	4.89	1763	5.58	1835	6.30	1918	7.06	1989	.781	2062	8.64	2124	9.59	2189	10.4
8,208	2400	1637	4.55	1675	4.92	1718	5.26	1802	5.98	1864	6.70	1948	7.44	2019	8.20	2088	9.04	2163	9.95	2222	10.9
8,550	2500	1676	4.88	1719	5.29	1753	5.66	1837	6.33	1908	7.12	1974	7.85	2051	8.61	2122	9.44	2188	10.4	2245	11.3
8,892	2600	1718	5.23	1757	5.64	1794	6.01	1873	6.80	1951	7.56	2012	8.33	2081	9.13	2149	9.97	2217	10.8	2276	11.8
9,234	2700	1758	5.63	1797	6.09	1835	6.41	1910	7.27	1986	8.03	2051	8.78	2116	9.62	2181	10.5	2251	11.4	2306	12.3
9,576	2800	1800	6.00	1839	6.46	1876	6.87	1948	7.70	2022	8.49	2089	9.30	2153	10.2	2215	11.0	2280	11.9	2339	12.8
9,918	2900	1837	6.42	1881	6.86	1919	7.30	1985	8.16	2055	9.08	2128	9.91	2191	10.8	2247	11.6	2311	12.5	2370	13.4
10 260	3000	1873	6.88	1922	7.27	1957	7.76	2027	8.66	2093	9.62	2159	10.5	2230	11.3	2289	12.2	2348	13.1	2399	14.0
10,602	3100	1916	7.45	1960	7.79	1997	8.23	2067	9.17	2130	10.1	2193	11.0	2263	11.7	2325	12.8	2385	13.7	2433	14.8
10,944	3200	1962	7.86	2003	8.30	2039	8.73	2108	9.72	2169	10.7	2235	11.7	2300	12.4	2362	13.5	2425	14.4	2465	15.5
11,286	3300	2002	8.36	2041	8.79	2081	9.25	2149	10.3	2212	11.3	2276	12.3	2334	13.1	2395	14.2	2464	15.2	2513	16.2
11,628	3400	2042	8.92	2082	9.30	2119	9.87	2189	10.9	2252	11.9	2314	12.9	2372	13.9	2428	15.0	2498	15.9	2554	16.9
11,970	3500	2085	9.44	2121	9.92	2159	10.4	2230	11.5	2294	12.5	2353	13.6	2412	14.6	2468	15.7	2524	16.6		
12,312	3600	2126	10.0	2162	10.6	2200	11.0	2267	12.1	2344	13.2	2395	14.3	2453	15.3	2504	16.4	2558	17.5		
12,996	3800	2226	11.1	2251	11.8	2284	12.5	2351	13.5	2417	14.6	2478	15.7	2534	16.9	2583	18.1	2640	19.2		
13,680	4000	2312	12.3	2345	13.0	2370	13.8	2428	15.0	2498	16.3	2559	17.3	2617	18.5	2667	19.7	2719	20.9		

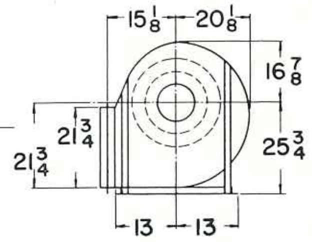
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

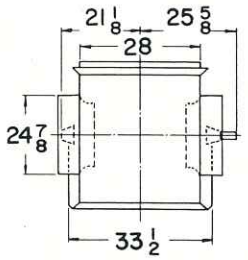
SIZE 400 — Buffalo Double Inlet Limit-Load (REG. U.S. PAT. OFF.) Type "BL" Fans — SIZE 400

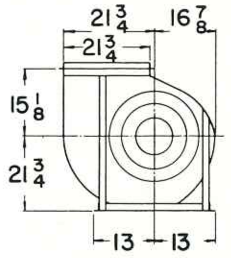
Wheel Diameter 20″. Limit Load H.P. $= 1.65 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 4.14 sq. ft. inside.

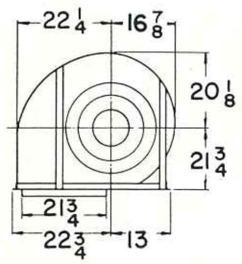
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3,312	800	510	.23	563	.29	613	.38	662	.44	705	.54	745	.66	783	.74	859	.98	943	1.24	1022	1.49
3,726	900	548	.28	597	.34	641	.42	687	.52	731	.60	771	.71	802	.83	874	1.07	946	1.31	1025	1.59
4,140	1000	585	.32	632	.41	682	.49	718	.60	758	.68	800	.79	830	.91	895	1.14	965	1.41	1030	1.69
4,554	1100	625	.38	669	.50	711	.59	752	.70	787	.78	824	.89	860	1.00	923	1.25	986	1.50	1048	1.79
4,968	1200	660	.47	706	.58	746	.68	784	.79	819	.89	852	1.01	891	1.12	954	1.36	1014	1.63	1069	1.91
5,382	1300	698	.55	744	.67	784	.80	819	.92	853	1.02	887	1.13	919	1.25	980	1.49	1043	1.75	1093	2.05
5,796	1400	739	.64	795	.79	820	.91	855	1.02	888	1.17	923	1.30	957	1.39	1011	1.65	1069	1.93	1122	2.22
6,210	1500	783	.73	819	.90	857	1.03	892	1.17	923	1.30	958	1.44	987	1.56	1043	1.84	1096	2.11	1150	2.39
6,624	1600	820	.88	859	1.02	896	1.17	929	1.31	963	1.45	994	1.59	1019	1.75	1077	2.03	1132	2.33	1179	2.63
7,038	1700	863	1.01	899	1.17	933	1.35	966	1.47	999	1.65	1029	1.78	1056	1.93	1111	2.25	1167	2.53	1207	2.86
7,452	1800	904	1.15	940	1.32	972	1.51	1003	1.67	1036	1.81	1065	1.99	1093	2.15	1145	2.45	1199	2.76	1245	3.10
7,866	1900	948	1.31	982	1.49	1015	1.66	1040	1.85	1074	2.02	1103	2.20	1132	2.37	1181	2.70	1229	3.04	1279	3.39
8,280	2000	989	1.47	1022	1.67	1056	1.83	1081	2.07	1107	2.27	1141	2.41	1167	2.61	1215	2.97	1266	3.33	1309	3.72
8,694	2100	1034	1.63	1064	1.89	1094	2.05	1123	2.29	1148	2.52	1179	2.67	1205	2.85	1255	3.18	1301	3.62	1343	3.99
9,108	2200	1077	1.84	1105	2.10	1136	2.31	1165	2.52	1189	2.73	1214	2.97	1244	3.10	1291	3.51	1338	3.93	1382	4.31
9,522	2300	1121	2.05	1147	2.34	1175	2.53	1204	2.79	1229	3.00	1251	3.26	1280	3.46	1330	3.81	1376	4.23	1415	4.67
9,936	2400	1166	2.33	1190	2.57	1219	2.82	1244	3.03	1272	3.26	1291	3.53	1315	3.77	1367	4.14	1413	4.58	1455	5.03
10,350	2500	1203	2.67	1236	2.81	1259	3.11	1286	3.30	1312	3.56	1332	3.86	1356	4.11	1403	4.49	1449	5.03	1490	5.39
10,764	2600	1245	3.03	1280	3.10	1303	3.39	1328	3.64	1351	3.88	1376	4.14	1398	4.44	1442	4.91	1485	5.38	1528	5.85
11,178	2700	1289	3.22	1320	3.42	1342	3.75	1369	3.98	1392	4.07	1418	4.49	1440	4.77	1483	5.30	1523	5.75	1567	6.29
11,592	2800	1335	3.53	1368	3.72	1387	4.04	1411	4.31	1435	4.41	1457	4.89	1479	5.11	1519	5.74	1559	6.19	1601	6.77
12,006	2900	1380	3.75	1403	4.22	1432	4.37	1455	4.72	1476	5.01	1498	5.33	1522	5.50	1561	6.20	1598	6.71	1637	7.21
12,420	3000	1426	3.96	1445	4.70	1476	4.73	1497	5.13	1517	5.41	1538	5.79	1562	5.97	1601	6.53	1636	7.28	1674	7.63
12,834	3100	1472	4.25	1508	5.12	1519	5.14	1538	5.50	1559	5.86	1580	6.14	1601	6.44	1643	7.02	1675	7.75	1711	8.26
13,248	3200	1518	4.55	1535	5.57	1562	5.68	1582	5.92	1601	6.31	1622	6.58	1642	6.92	1682	7.53	1716	8.24	1752	8.79











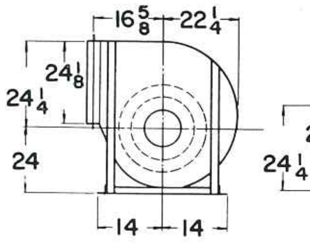
CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5,796	1400	1173	2.52	1220	2.87	1262	3.22	1358	3.95	1445	4.70	1533	5.51	1624	6.43	1723	7.35	1796	8.28	1875	9.23
6,210	1500	1204	2.70	1243	3.05	1296	3.39	1375	4.16	1463	4.94	1546	5.80	1642	6.68	1724	7.54	1798	8.53	1876	9.53
6,624	1600	1230	2.93	1275	3.28	1325	3.62	1403	4.38	1486	5.17	1559	6.04	1644	6.89	1725	7.80	1802	8.79	1879	9.87
7,038	1700	1257	3.15	1306	3.51	1348	3.84	1433	4.65	1513	5.41	1586	6.31	1646	7.17	1727	8.18	1808	9.09	1882	10.2
7,452	1800	1288	3.45	1335	3.75	1372	4.11	1458	4.89	1539	5.71	1611	6.58	1676	7.46	1745	8.44	1822	9.42	1883	10.5
7,866	1900	1322	3.74	1364	4.06	1405	4.42	1488	5.18	1567	6.02	1639	6.88	1700	7.75	1760	8.79	1836	9.79	1903	10.8
8,280	2000	1355	4.02	1396	4.38	1435	4.76	1519	5.53	1593	6.32	1665	7.27	1730	8.13	1794	9.15	1861	10.2	1922	11.2
8,694	2100	1385	4.37	1432	4.73	1469	5.11	1552	5.90	1623	6.69	1688	7.56	1757	8.54	1825	9.55	1888	10.6	1940	11.7
9,108	2200	1422	4.73	1465	5.09	1501	5.44	1577	6.25	1649	7.09	1719	8.01	1787	8.96	1855	9.95	1914	11.0	1966	12.1
9,522	2300	1456	5.07	1493	5.47	1537	5.87	1609	6.70	1674	7.57	1750	8.48	1815	9.38	1882	10.4	1938	11.5	1997	12.5
9,936	2400	1494	5.47	1528	5.91	1568	6.32	1644	7.18	1701	8.05	1776	8.94	1842	9.85	1905	10.9	1974	12.0	2028	13.1
10,350	2500	1529	5.86	1569	6.35	1600	6.80	1676	7.60	1741	8.55	1801	9.43	1872	10.3	1936	11.3	1997	12.5	2049	13.6
10,764	2600	1568	6.28	1603	6.77	1637	7.22	1709	8.17	1780	9.08	1836	10.0	1899	11.0	1961	12.0	2023	13.0	2077	14.2
11,178	2700	1604	6.76	1640	7.32	1674	7.70	1743	8.73	1812	9.65	1872	10.5	1931	11.6	1990	12.6	2054	13.7	2104	14.8
11,592	2800	1643	7.21	1678	7.76	1712	8.25	1778	9.25	1845	10.2	1906	11.2	1965	12.3	2021	13.2	2081	14.3	2134	15.4
12,006	2900	1676	7.71	1716	8.24	1751	8.77	1811	9.80	1875	10.9	1942	11.9	1999	13.0	2050	13.9	2109	15.0	2163	16.1
12,420	3000	1709	8.26	1754	8.73	1786	9.32	1850	10.4	1910	11.6	1970	12.6	2035	13.6	2089	14.7	2143	15.7	2189	16.8
12,834	3100	1748	8.95	1789	9.36	1822	9.89	1886	11.0	1944	12.1	2001	13.2	2065	14.1	2122	15.4	2176	16.5	2220	17.8
13,248	3200	1790	9.44	1828	9.97	1861	10.5	1924	11.7	1979	12.9	2039	14.1	2099	14.9	2155	16.2	2213	17.3	2249	18.6
13,662	3300	1827	10.0	1862	10.6	1899	11.1	1961	12.4	2018	13.6	2077	14.8	2130	15.7	2185	17.1	2248	18.3	2293	19.5
14,076	3400	1863	10.7	1900	11.2	1934	11.9	1997	13.1	2055	14.3	2112	15.5	2165	16.7	2216	18.0	2279	19.1	2331	20.3
14,490	3500	1903	11.3	1935	11.9	1970	12.5	2035	13.8	2093	15.0	2147	16.3	2201	17.5	2252	18.9	2302	19.9		
14,904	3600	1940	12.0	1973	12.7	2008	13.2	2069	14.5	2139	15.9	2185	17.2	2238	18.4	2285	19.7	2334	21.0		
15,732	3800	2031	13.3	2054	14.2	2084	15.0	2145	16.2	2206	17.5	2261	18.9	2312	20.3	2357	21.7	2409	23.1		
16,560	4000	2110	14.8	2140	15.6	2163	16.6	2216	18.0	2279	19.6	2335	20.8	2388	22.2	2434	23.7	2481	25.1		

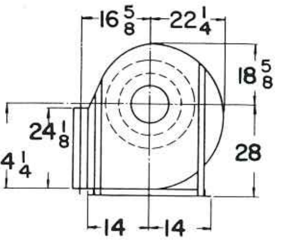
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

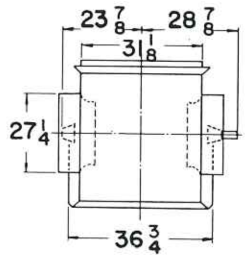
SIZE 445 — Buffalo Double Inlet Limit-Load (REG. U.S. PAT. OFF.) Type "BL" Fans — SIZE 445

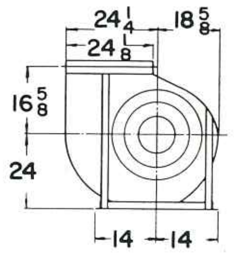
Wheel Diameter 22¼″. Limit Load H.P. $= 2.81 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 5.09 sq. ft. inside.

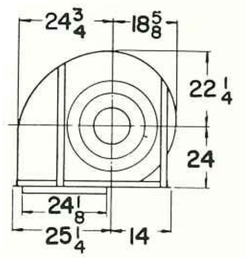
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4,072	800	458	.28	506	.36	551	.48	595	.55	634	.67	669	.82	704	.92	772	1.22	847	1.53	919	1.84
4,581	900	493	.34	536	.42	577	.52	618	.64	657	.74	693	.88	721	1.03	786	1.32	851	1.62	921	1.96
5,090	1000	526	.40	568	.51	613	.61	645	.74	682	.85	719	.98	746	1.13	805	1.41	867	1.74	926	2.10
5,599	1100	562	.48	601	.62	639	.73	676	.86	707	.97	741	1.10	773	1.23	829	1.55	887	1.86	942	2.21
6,108	1200	593	.58	635	.71	671	.85	705	.98	737	1.10	766	1.25	801	1.38	857	1.68	911	2.02	961	2.36
6,617	1300	627	.68	668	.83	705	1.00	736	1.14	767	1.26	797	1.40	826	1.55	881	1.84	937	2.17	983	2.54
7,126	1400	664	.79	714	.98	737	1.13	769	1.26	798	1.44	829	1.60	860	1.72	909	2.04	960	2.39	1009	2.75
7,635	1500	704	.91	736	1.11	770	1.28	801	1.44	830	1.60	861	1.78	887	1.93	937	2.27	985	2.62	1033	2.96
8,144	1600	737	1.08	772	1.26	805	1.44	835	1.62	865	1.80	893	1.96	916	2.17	968	2.51	1017	2.88	1060	3.25
8,653	1700	776	1.25	808	1.44	839	1.66	869	1.81	898	2.04	925	2.20	949	2.39	998	2.78	1049	3.14	1085	3.54
9,162	1800	813	1.43	845	1.63	874	1.87	901	2.07	931	2.24	957	2.47	983	2.66	1029	3.03	1078	3.42	1119	3.83
9,671	1900	852	1.62	883	1.84	912	2.05	935	2.29	965	2.50	992	2.72	1017	2.93	1061	3.34	1105	3.76	1150	4.19
10,180	2000	889	1.81	919	2.07	949	2.26	972	2.56	995	2.81	1025	2.99	1049	3.22	1093	3.67	1138	4.12	1177	4.61
10,689	2100	929	2.02	956	2.33	983	2.54	1010	2.84	1032	3.12	1060	3.30	1083	3.52	1128	3.94	1170	4.47	1207	4.93
11,198	2200	968	2.27	993	2.60	1021	2.85	1047	3.12	1069	3.37	1091	3.67	1118	3.83	1161	4.34	1202	4.86	1242	5.33
11,707	2300	1007	2.54	1031	2.90	1056	3.14	1082	3.45	1105	3.72	1124	4.03	1151	4.28	1195	4.71	1237	5.23	1272	5.78
12,216	2400	1048	2.88	1070	3.18	1096	3.49	1118	3.74	1143	4.03	1161	4.37	1182	4.67	1229	5.13	1270	5.66	1307	6.23
12,725	2500	1081	3.30	1111	3.48	1132	3.85	1156	4.09	1179	4.40	1197	4.77	1219	5.08	1261	5.56	1302	6.23	1339	6.67
13,234	2600	1119	3.74	1151	3.83	1171	4.19	1193	4.50	1215	4.80	1237	5.13	1257	5.50	1296	6.08	1334	6.66	1374	7.24
13,743	2700	1159	3.98	1187	4.24	1207	4.64	1230	4.92	1251	5.04	1275	5.56	1294	5.90	1333	6.55	1369	7.12	1408	7.79
14,252	2800	1200	4.37	1229	4.61	1247	4.99	1268	5.33	1290	5.45	1310	6.05	1330	6.32	1366	7.10	1402	7.65	1439	8.38
14,761	2900	1240	4.64	1261	5.22	1287	5.41	1308	5.84	1327	6.20	1347	6.60	1368	6.81	1403	7.67	1436	8.31	1471	8.92
15,270	3000	1282	4.90	1299	5.81	1327	5.85	1345	6.35	1364	6.69	1383	7.16	1404	7.39	1439	8.08	1471	9.01	1505	9.44
15,779	3100	1323	5.26	1356	6.33	1366	6.36	1382	6.81	1401	7.25	1421	7.59	1439	7.96	1476	8.68	1506	9.58	1538	10.2
16,288	3200	1365	5.63	1380	6.90	1404	7.03	1422	7.33	1439	7.80	1457	8.14	1475	8.56	1512	9.32	1543	10.2	1575	10.9











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,126	1400	1054	3.12	1097	3.55	1134	3.98	1220	4.89	1299	5.81	1379	6.82	1460	7.95	1549	9.09	1614	10.2	1685	11.4
7,635	1500	1082	3.34	1117	3.77	1165	4.19	1236	5.14	1315	6.11	1389	7.18	1476	8.26	1550	9.33	1616	10.6	1686	11.8
8,144	1600	1106	3.63	1146	4.06	1191	4.47	1261	5.42	1336	6.39	1402	7.47	1477	8.53	1551	9.64	1620	10.9	1689	12.2
8,653	1700	1129	3.89	1174	4.34	1211	4.76	1288	5.75	1360	6.69	1426	7.80	1480	8.87	1553	10.1	1625	11.2	1691	12.6
9,162	1800	1158	4.26	1200	4.64	1234	5.08	1311	6.05	1384	7.06	1448	8.14	1507	9.23	1568	10.4	1638	11.7	1693	13.0
9,671	1900	1188	4.62	1226	5.02	1263	5.47	1338	6.40	1408	7.44	1473	8.51	1528	9.58	1582	10.9	1650	12.1	1710	13.4
10,180	2000	1218	4.98	1255	5.42	1290	5.88	1366	6.84	1432	7.82	1497	8.99	1555	10.1	1613	11.3	1672	12.6	1728	13.9
10,689	2100	1245	5.41	1287	5.85	1321	6.32	1395	7.30	1459	8.28	1517	9.35	1579	10.6	1640	11.8	1697	13.1	1744	14.4
11,198	2200	1278	5.85	1316	6.30	1349	6.73	1417	7.73	1482	8.77	1545	9.91	1606	11.1	1667	12.3	1721	13.6	1768	15.0
11,707	2300	1309	6.27	1342	6.76	1381	7.27	1446	8.29	1505	9.36	1573	10.5	1631	11.6	1691	12.8	1742	14.3	1795	15.5
12,216	2400	1343	6.76	1374	7.31	1409	7.82	1478	8.89	1529	9.96	1598	11.1	1656	12.2	1713	13.4	1774	14.8	1822	16.2
12,725	2500	1375	7.25	1410	7.86	1438	8.41	1507	9.41	1565	10.6	1619	11.7	1682	12.8	1740	14.0	1795	15.5	1841	16.8
13,234	2600	1409	7.77	1441	8.38	1471	8.93	1536	10.1	1600	11.2	1650	12.4	1707	13.6	1763	14.8	1818	16.0	1867	17.5
13,743	2700	1442	8.37	1474	9.05	1505	9.53	1567	10.8	1629	11.9	1682	13.0	1736	14.3	1789	15.6	1846	16.9	1891	18.3
14,252	2800	1476	8.92	1508	9.60	1539	10.2	1598	11.4	1658	12.6	1713	13.8	1766	15.2	1817	16.3	1870	17.7	1918	19.0
14,761	2900	1507	9.54	1543	10.2	1574	10.8	1628	12.1	1686	13.5	1745	14.7	1797	16.0	1843	17.2	1895	18.6	1944	19.9
15,270	3000	1536	10.2	1576	10.8	1605	11.5	1663	12.9	1717	14.3	1771	15.6	1829	16.8	1877	18.1	1926	19.5	1968	20.8
15,779	3100	1572	11.1	1608	11.6	1638	12.2	1695	13.6	1747	15.0	1799	16.3	1856	17.4	1907	19.0	1956	20.4	1996	22.0
16,288	3200	1609	11.7	1643	12.3	1672	13.0	1729	14.4	1779	15.9	1833	17.4	1886	18.4	1937	20.1	1989	21.4	2022	23.0
16,797	3300	1642	12.4	1674	13.1	1707	13.7	1763	15.3	1814	16.8	1867	18.3	1914	19.5	1964	21.1	2021	22.6	2061	24.1
17,306	3400	1675	13.3	1708	13.8	1738	14.7	1795	16.2	1847	17.7	1898	19.2	1946	20.7	1991	22.3	2049	23.6	2095	25.1
17,815	3500	1710	14.0	1740	14.7	1771	15.5	1829	17.1	1882	18.6	1930	20.2	1978	21.7	2024	23.3	2070	24.7		
18,324	3600	1744	14.9	1773	15.8	1804	16.3	1859	18.0	1923	19.6	1964	21.2	2012	22.7	2054	24.4	2098	26.0		
19,342	3800	1826	16.5	1846	17.5	1873	18.6	1928	20.1	1982	21.7	2032	23.3	2078	25.1	2119	26.9	2165	28.5		
20,360	4000	1896	18.3	1923	19.3	1944	20.5	1991	22.3	2049	24.2	2099	25.7	2146	27.5	2187	29.3	2230	31.1		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 490

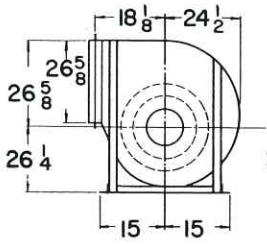
Buffalo Double Inlet Limit-Load Type “BL” Fans

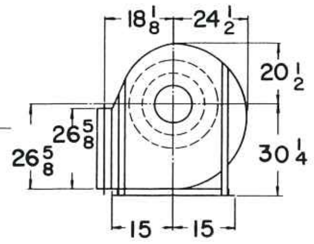
REG. U.S. PAT. OFF.

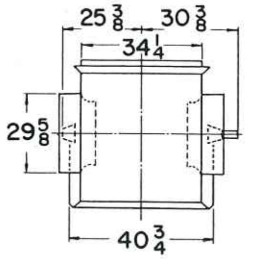
SIZE 490

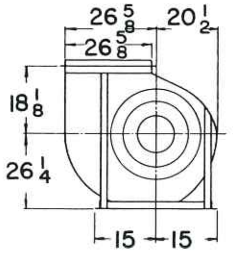
Wheel Diameter 24½″. Limit Load H.P. = $4.57 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 6.22 sq. ft. inside.

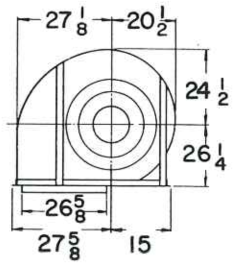
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4,976	800	416	.34	460	.43	501	.58	540	.67	576	.81	608	.99	639	1.12	701	1.48	769	1.86	834	2.23
5,598	900	448	.41	487	.50	524	.63	561	.77	597	.90	629	1.06	655	1.24	714	1.60	772	1.96	837	2.38
6,220	1000	477	.49	516	.61	556	.74	586	.90	619	1.03	653	1.19	678	1.37	731	1.71	787	2.11	841	2.54
6,842	1100	510	.58	546	.76	580	.88	614	1.05	642	1.17	673	1.33	702	1.50	753	1.87	805	2.25	856	2.69
7,464	1200	539	.70	577	.87	609	1.03	640	1.19	669	1.33	696	1.51	727	1.68	778	2.04	828	2.45	873	2.87
8,086	1300	570	.83	607	1.01	640	1.21	668	1.39	696	1.53	724	1.69	750	1.87	800	2.23	851	2.63	892	3.08
8,708	1400	603	.96	648	1.19	670	1.37	698	1.53	725	1.75	753	1.95	781	2.09	825	2.47	872	2.90	916	3.33
9,330	1500	639	1.10	668	1.35	699	1.55	728	1.75	754	1.95	782	2.16	806	2.34	851	2.75	895	3.17	939	3.59
9,952	1600	670	1.32	701	1.53	731	1.75	758	1.96	786	2.18	811	2.38	832	2.63	879	3.05	924	3.50	962	3.95
10,574	1700	705	1.51	734	1.75	762	2.02	789	2.20	816	2.47	840	2.67	862	2.90	907	3.37	953	3.80	986	4.29
11,196	1800	738	1.73	767	1.98	793	2.27	819	2.51	845	2.72	869	2.99	892	3.23	935	3.68	979	4.15	1016	4.65
11,818	1900	774	1.96	802	2.23	828	2.49	849	2.78	877	3.03	901	3.30	924	3.55	964	4.06	1003	4.56	1044	5.08
12,440	2000	807	2.20	834	2.51	861	2.74	883	3.10	904	3.41	931	3.62	953	3.91	992	4.45	1033	4.99	1069	5.59
13,062	2100	844	2.45	869	2.83	893	3.08	917	3.44	937	3.78	962	4.00	984	4.27	1024	4.78	1062	5.42	1096	5.98
13,684	2200	879	2.76	902	3.15	927	3.46	951	3.78	971	4.09	991	4.45	1015	4.65	1054	5.26	1092	5.89	1128	6.47
14,306	2300	915	3.08	936	3.51	959	3.80	983	4.18	1003	4.51	1021	4.88	1045	5.19	1085	5.71	1123	6.34	1155	7.01
14,928	2400	952	3.50	971	3.86	995	4.24	1015	4.54	1038	4.88	1054	5.30	1073	5.66	1116	6.22	1154	6.87	1187	7.55
15,550	2500	982	4.00	1009	4.22	1028	4.67	1050	4.96	1071	5.33	1088	5.79	1107	6.16	1146	6.74	1183	7.55	1216	8.09
16,172	2600	1016	4.54	1045	4.65	1064	5.08	1084	5.46	1103	5.82	1123	6.22	1141	6.67	1177	7.37	1212	8.07	1248	8.78
16,794	2700	1053	4.83	1078	5.14	1096	5.62	1117	5.97	1136	6.11	1158	6.74	1175	7.16	1210	7.95	1243	8.63	1279	9.44
17,416	2800	1090	5.30	1117	5.59	1132	6.06	1152	6.47	1172	6.61	1190	7.34	1207	7.66	1240	8.61	1273	9.28	1307	10.2
18,038	2900	1126	5.62	1146	6.33	1169	6.56	1188	7.08	1205	7.52	1223	8.00	1242	8.25	1275	9.30	1304	10.1	1336	10.8
18,660	3000	1164	5.95	1180	7.05	1205	7.10	1222	7.70	1239	8.11	1256	8.69	1275	8.96	1307	9.80	1336	10.9	1367	11.4
19,282	3100	1202	6.38	1231	7.68	1240	7.71	1256	8.25	1272	8.80	1290	9.21	1307	9.66	1341	10.5	1368	11.6	1397	12.4
19,904	3200	1240	6.83	1253	8.36	1275	8.52	1292	8.89	1307	9.46	1324	9.88	1340	10.4	1373	11.3	1401	12.4	1430	13.2











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8,708	1400	957	3.78	996	4.31	1030	4.83	1108	5.93	1180	7.05	1251	8.27	1326	9.64	1406	11.0	1466	12.4	1531	13.8
9,330	1500	983	4.06	1015	4.58	1058	5.08	1123	6.24	1194	7.41	1262	8.71	1340	10.0	1407	11.3	1467	12.8	1532	14.3
9,952	1600	1004	4.40	1041	4.92	1082	5.42	1146	6.58	1213	7.75	1273	9.07	1342	10.3	1408	11.7	1471	13.2	1534	14.8
10,574	1700	1026	4.72	1066	5.26	1100	5.77	1169	6.97	1235	8.11	1295	9.46	1344	10.8	1410	12.3	1476	13.6	1536	15.2
11,196	1800	1052	5.17	1090	5.62	1120	6.16	1190	7.34	1257	8.56	1315	9.88	1368	11.2	1424	12.7	1488	14.1	1537	15.7
11,818	1900	1079	5.61	1114	6.09	1147	6.63	1215	7.77	1279	9.03	1338	10.3	1388	11.6	1437	13.2	1499	14.7	1553	16.3
12,440	2000	1106	6.04	1140	6.58	1172	7.14	1240	8.29	1301	9.48	1359	10.9	1412	12.2	1464	13.7	1519	15.3	1570	16.9
13,062	2100	1131	6.56	1169	7.10	1199	7.66	1267	8.85	1325	10.0	1378	11.3	1434	12.8	1490	14.3	1541	15.9	1584	17.5
13,684	2200	1161	7.10	1196	7.64	1225	8.16	1287	9.37	1346	10.6	1403	12.0	1459	13.4	1514	14.9	1563	16.5	1605	18.2
14,306	2300	1189	7.61	1219	8.20	1254	8.81	1313	10.1	1367	11.4	1429	12.7	1482	14.1	1536	15.6	1582	17.3	1631	18.7
14,928	2400	1219	8.20	1248	8.87	1280	9.48	1342	10.8	1388	12.1	1451	13.4	1504	14.8	1555	16.3	1611	17.9	1655	19.6
15,550	2500	1248	8.80	1280	9.53	1306	10.2	1368	11.4	1421	12.8	1470	14.1	1528	15.5	1581	17.0	1630	18.7	1672	20.4
16,172	2600	1280	9.42	1309	10.2	1336	10.8	1395	12.3	1453	13.6	1499	15.0	1550	16.5	1601	18.0	1651	19.5	1695	21.3
16,794	2700	1310	10.1	1339	11.0	1367	11.6	1423	13.1	1479	14.5	1528	15.8	1576	17.3	1625	18.9	1677	20.5	1718	22.2
17,416	2800	1341	10.8	1370	11.6	1397	12.4	1451	13.9	1506	15.3	1556	16.8	1604	18.4	1650	19.8	1698	21.4	1742	23.1
18,038	2900	1368	11.6	1401	12.4	1429	13.2	1479	14.7	1531	16.4	1585	17.9	1632	19.5	1674	20.9	1721	22.5	1765	24.2
18,660	3000	1395	12.4	1432	13.1	1458	14.0	1510	15.6	1559	17.3	1608	18.9	1661	20.4	1705	22.0	1749	23.6	1787	25.2
19,282	3100	1427	13.4	1460	14.0	1488	14.8	1540	16.5	1587	18.2	1634	19.8	1686	21.1	1732	23.1	1777	24.7	1812	26.7
19,904	3200	1461	14.2	1492	15.0	1519	15.7	1570	17.5	1616	19.3	1665	21.1	1713	22.3	1759	24.3	1806	26.0	1836	27.9
20,526	3300	1491	15.1	1520	15.8	1550	16.7	1601	18.6	1648	20.4	1695	22.2	1739	23.6	1784	25.6	1835	27.4	1872	29.2
21,148	3400	1521	16.1	1551	16.8	1578	17.8	1631	19.6	1678	21.4	1724	23.2	1767	25.1	1809	27.0	1861	28.7	1902	30.5
21,770	3500	1553	17.0	1580	17.9	1608	18.7	1661	20.7	1709	22.5	1753	24.5	1797	26.3	1838	28.3	1880	29.9		
22,392	3600	1584	18.0	1610	19.1	1639	19.8	1689	21.8	1746	23.8	1784	25.8	1827	27.6	1865	29.6	1905	31.5		
23,636	3800	1658	20.0	1677	21.3	1701	22.5	1751	24.3	1800	26.3	1846	28.3	1888	30.5	1924	32.6	1967	34.6		
24,880	4000	1722	22.2	1747	23.4	1765	24.9	1809	27.0	1861	29.4	1906	31.2	1949	33.3	1987	35.5	2025	37.7		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 540

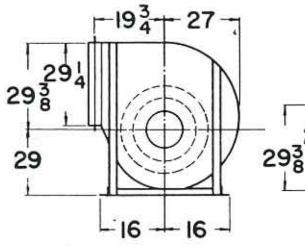
Buffalo Double Inlet Limit-Load Type “BL” Fans

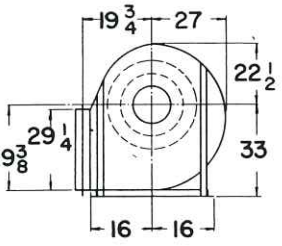
REG. U.S. PAT. OFF.

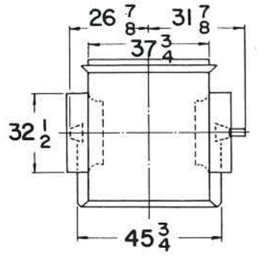
SIZE 540

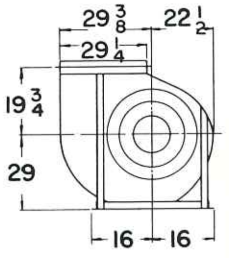
Wheel Diameter 27″. Limit Load H.P. = $7.01 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 7.55 sq. ft. inside.

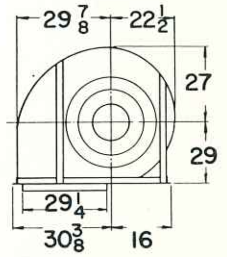
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6,040	800	385	.40	425	.53	460	.65	492	.80	523	.96	550	1.13	577	1.29	635	1.67	691	2.05	747	2.50
6,795	900	415	.49	450	.62	485	.76	513	.93	542	1.10	570	1.26	593	1.44	651	1.81	700	2.22	756	2.68
7,550	1000	446	.59	479	.76	512	.90	539	1.07	568	1.24	596	1.40	618	1.60	665	1.99	710	2.42	763	2.86
8,305	1100	479	.71	508	.90	536	1.06	566	1.23	594	1.41	619	1.58	640	1.80	686	2.21	732	2.64	777	3.09
9,060	1200	509	.90	539	1.05	566	1.23	591	1.44	619	1.60	643	1.81	667	2.00	709	2.43	754	2.89	792	3.36
9,815	1300	539	1.06	570	1.25	596	1.43	619	1.67	645	1.85	670	2.04	692	2.25	735	2.69	778	3.14	814	3.65
10,570	1400	573	1.24	612	1.45	626	1.64	649	1.87	671	2.09	696	2.32	719	2.53	761	2.97	800	3.43	837	3.94
11,325	1500	608	1.47	632	1.70	656	1.91	679	2.35	700	2.37	724	2.60	744	2.85	786	3.31	825	3.78	860	4.30
12,080	1600	639	1.73	664	1.97	688	2.17	707	2.42	731	2.64	752	2.89	771	3.19	812	3.66	852	4.17	885	4.69
12,835	1700	674	2.02	697	2.26	719	2.50	739	2.76	761	2.99	782	3.24	801	3.51	840	4.05	877	4.58	910	5.13
13,590	1800	709	2.33	730	2.57	752	2.85	771	3.10	791	3.37	809	3.62	829	3.91	864	4.46	903	5.00	937	5.61
14,345	1900	743	2.65	764	2.91	785	3.19	800	3.51	824	3.75	841	4.04	860	4.33	894	4.90	927	5.51	962	6.10
15,100	2000	777	3.04	797	3.27	819	3.58	835	3.92	852	4.19	872	4.49	890	4.77	922	5.41	957	6.04	986	6.71
15,855	2100	813	3.39	832	3.75	850	4.01	869	4.41	885	4.72	904	4.96	921	5.30	953	5.88	986	6.56	1016	7.23
16,610	2200	848	3.82	867	4.20	885	4.49	902	4.89	920	5.18	936	5.50	953	5.78	983	6.45	1016	7.16	1047	7.82
17,365	2300	884	4.15	899	4.73	917	5.00	934	5.39	951	5.73	967	6.15	982	6.47	1014	7.03	1046	7.73	1074	8.43
18,120	2400	923	4.83	935	5.15	952	5.64	968	5.91	987	6.23	1000	6.70	1013	7.10	1047	7.67	1075	8.37	1105	9.15
18,875	2500	954	5.35	972	5.79	985	6.21	1001	6.58	1019	6.91	1033	7.32	1046	7.72	1078	8.35	1105	9.22	1132	9.88
19,630	2600	988	6.06	1007	6.40	1020	6.85	1035	7.24	1051	7.60	1066	7.98	1080	8.47	1110	9.18	1137	9.90	1163	10.7
20,385	2700	1023	6.71	1041	7.13	1054	7.54	1070	7.99	1084	8.30	1100	8.69	1114	9.23	1143	9.97	1169	10.7	1195	11.6
21,140	2800	1059	7.60	1080	7.88	1090	8.18	1104	8.64	1118	9.11	1134	9.56	1146	9.98	1174	10.8	1197	11.6	1227	12.5
21,895	2900	1093	8.39	1111	8.70	1127	8.98	1139	9.57	1153	10.0	1168	10.4	1179	10.8	1208	11.7	1230	12.5	1255	13.4
22,650	3000	1129	9.41	1146	9.41	1161	9.77	1174	10.3	1187	10.7	1200	11.4	1213	11.7	1239	12.5	1262	13.7	1289	14.3
23,405	3100	1165	10.1	1198	10.2	1197	10.7	1210	11.2	1221	11.7	1232	12.3	1246	12.7	1272	13.5	1295	14.6	1318	15.5
24,160	3200	1201	11.4	1219	11.2	1232	11.7	1244	12.3	1256	12.7	1266	13.2	1280	13.6	1306	14.6	1327	15.7	1351	16.5











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10,570	1400	867	4.49	904	5.05	933	5.59	1007	6.80	1065	7.98	1127	9.22	1201	10.8	1243	12.2	1305	13.7	1356	15.3
11,325	1500	898	4.82	922	5.39	963	5.97	1021	7.21	1079	8.50	1143	9.85	1215	11.3	1254	12.7	1316	14.2	1368	15.9
12,080	1600	916	5.25	949	5.84	985	6.42	1040	7.69	1100	8.97	1153	10.3	1218	11.8	1268	13.3	1324	14.8	1377	16.5
12,835	1700	944	5.65	974	6.30	1002	6.87	1060	8.22	1119	9.51	1177	10.9	1223	12.3	1278	13.9	1337	15.4	1390	17.1
13,590	1800	968	6.20	1000	6.73	1029	7.33	1082	8.72	1142	10.1	1192	11.5	1246	13.0	1293	14.5	1350	16.1	1398	17.7
14,345	1900	995	6.72	1026	7.31	1055	7.91	1109	9.26	1164	10.7	1209	12.2	1263	13.6	1310	15.2	1364	16.8	1414	18.5
15,100	2000	1022	7.25	1051	7.91	1079	8.56	1137	9.92	1189	11.3	1235	12.9	1285	14.4	1330	16.0	1386	17.7	1426	19.3
15,855	2100	1045	7.88	1079	8.53	1109	9.18	1167	10.6	1210	12.1	1256	13.5	1303	15.2	1351	16.8	1404	18.5	1440	20.3
16,610	2200	1073	8.55	1104	9.19	1132	9.84	1188	11.2	1234	12.7	1286	14.3	1330	16.0	1375	17.6	1421	19.4	1465	21.2
17,365	2300	1101	9.22	1126	9.92	1161	10.6	1215	12.0	1262	13.6	1308	15.2	1354	16.8	1395	18.4	1440	20.4	1485	22.0
18,120	2400	1132	9.86	1155	10.7	1183	11.4	1240	12.9	1282	14.5	1332	16.0	1374	17.7	1415	19.4	1460	21.2	1509	23.0
18,875	2500	1154	10.7	1186	11.5	1210	12.3	1268	13.7	1313	15.4	1357	16.9	1403	18.6	1443	20.3	1489	22.2	1525	24.1
19,630	2600	1190	11.5	1215	12.3	1240	13.0	1290	14.7	1339	16.4	1384	18.0	1430	19.6	1468	21.4	1514	23.3	1550	25.2
20,385	2700	1220	12.3	1243	13.2	1268	14.0	1318	15.8	1372	17.3	1410	19.0	1458	20.8	1492	22.5	1536	24.5	1574	26.5
21,140	2800	1249	13.2	1274	14.2	1297	15.0	1345	16.7	1390	18.4	1435	20.2	1484	22.0	1524	23.7	1560	25.8	1599	27.6
21,890	2900	1280	14.2	1304	15.1	1330	15.9	1375	17.7	1416	19.7	1464	21.5	1508	23.3	1545	25.1	1583	27.0	1623	28.8
22,650	3000	1308	15.2	1335	16.1	1357	17.1	1402	18.9	1446	20.9	1489	22.6	1534	24.3	1573	26.5	1610	28.3	1648	30.2
23,405	3100	1342	16.4	1366	17.2	1385	18.1	1431	20.0	1471	22.1	1514	24.0	1558	25.4	1599	27.9	1637	29.7	1673	31.8
24,160	3200	1377	17.4	1396	18.5	1418	19.2	1460	21.3	1500	23.2	1541	25.4	1585	26.9	1624	29.2	1662	31.4	1699	33.3
24,915	3300	1406	18.7	1426	19.7	1450	20.6	1491	22.6	1532	24.6	1572	26.6	1610	28.5	1648	30.8	1690	33.0	1730	34.9
25,670	3400	1437	20.1	1459	20.9	1482	21.8	1529	23.7	1561	26.0	1601	28.0	1639	30.3	1677	32.4	1717	34.3	1754	36.6
26,425	3500	1467	21.5	1490	22.3	1513	23.1	1551	25.3	1593	27.4	1629	29.5	1667	32.0	1703	34.0	1739	36.1		
27,180	3600	1500	22.8	1521	23.8	1543	24.7	1581	27.0	1627	29.0	1657	31.3	1697	33.9	1727	35.7	1762	38.1		
28,690	3800	1570	25.8	1586	26.7	1606	28.2	1646	29.9	1682	32.4	1719	34.5	1755	37.1	1788	39.3	1823	41.6		
30,200	4000	1635	28.7	1653	30.2	1672	31.3	1706	33.4	1743	36.1	1779	38.2	1814	40.5						

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 600

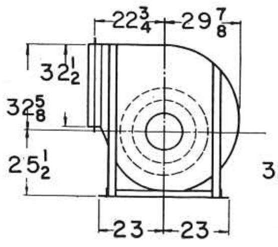
Buffalo Double Inlet Limit-Load Type "BL" Fans

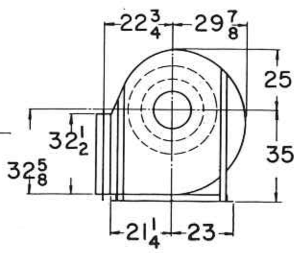
REG. U.S. PAT. OFF.

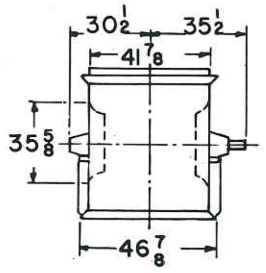
SIZE 600

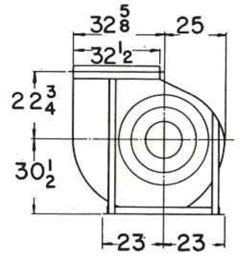
Wheel Diameter 30″. Limit Load H.P. $= 13.15 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 9.27 sq. ft. inside.

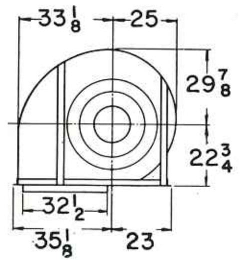
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7,416	800	331	.47	367	.63	397	.80	427	.97	454	1.16	482	1.36	506	1.58	559	2.03	612	2.51	659	3.04
8,343	900	355	.59	388	.76	418	.94	446	1.12	471	1.32	497	1.52	520	1.74	568	2.21	614	2.71	662	3.26
9,270	1000	379	.71	411	.90	441	1.09	466	1.29	490	1.50	516	1.71	539	1.94	580	2.42	622	2.94	666	3.49
10,197	1100	403	.85	434	1.07	461	1.29	488	1.49	511	1.71	534	1.94	557	2.17	598	2.66	638	3.19	676	3.76
11,124	1200	430	1.02	458	1.25	484	1.48	509	1.72	533	1.95	555	2.20	576	2.44	616	2.95	654	3.49	690	4.06
12,051	1300	457	1.21	482	1.47	507	1.71	532	1.99	555	2.22	576	2.47	597	2.73	636	3.26	673	3.81	707	4.41
12,978	1400	483	1.43	517	1.70	532	1.97	555	2.24	576	2.51	598	2.78	619	3.06	656	3.61	691	4.19	727	4.79
13,905	1500	511	1.69	535	1.95	557	2.24	579	2.53	599	2.83	620	3.12	639	3.42	678	4.01	712	4.60	745	5.22
14,832	1600	539	1.97	562	2.24	585	2.55	603	2.86	624	3.17	644	3.48	662	3.80	699	4.42	734	5.05	765	5.70
15,759	1700	567	2.28	589	2.57	609	2.89	629	3.23	648	3.55	667	3.88	685	4.21	721	4.88	754	5.53	786	6.22
16,686	1800	595	2.63	615	2.93	636	3.27	654	3.62	672	3.98	690	4.32	708	4.67	744	5.36	776	6.03	808	6.77
17,613	1900	624	3.01	643	3.34	662	3.68	679	4.04	699	4.41	716	4.78	733	5.15	767	5.87	798	6.61	828	7.36
18,540	2000	652	3.43	671	3.80	690	4.14	707	4.51	723	4.90	741	5.29	757	5.66	790	6.44	821	7.23	849	8.05
19,467	2100	682	3.85	699	4.30	717	4.63	734	5.02	750	5.42	767	5.82	782	6.24	814	7.02	844	7.85	873	8.67
20,394	2200	711	4.36	728	4.80	745	5.17	762	5.57	777	5.97	792	6.41	809	6.79	838	7.64	867	8.53	896	9.36
21,321	2300	740	4.96	756	5.38	771	5.79	788	6.17	803	6.57	819	7.02	833	7.50	862	8.33	891	9.22	919	10.1
22,248	2400	771	5.52	785	5.93	800	6.44	815	6.83	832	7.23	846	7.64	859	8.19	888	9.09	916	9.98	943	10.9
23,175	2500	798	6.21	814	6.59	828	7.09	843	7.50	859	7.98	872	8.40	886	8.88	913	9.84	940	10.9	965	11.8
24,102	2600	827	6.96	843	7.30	857	7.78	871	8.26	885	8.74	900	9.22	914	9.71	939	10.7	965	11.7	991	12.7
25,029	2700	856	7.71	872	8.05	885	8.60	899	9.15	913	9.57	928	10.0	941	10.5	966	11.6	991	12.6	1015	13.7
25,956	2800	886	8.60	903	8.95	914	9.36	928	9.91	941	10.5	954	10.9	968	11.4	993	12.5	1016	13.6	1041	14.7
26,883	2900	916	9.36	930	9.84	943	10.3	955	10.9	969	11.5	982	11.9	994	12.4	1020	13.5	1043	14.6	1066	15.7
27,810	3000	946	10.4	959	10.7	972	11.2	986	11.8	997	12.4	1010	12.9	1022	13.5	1046	14.5	1069	15.7	1092	16.8
28,737	3100	975	11.4	989	11.7	1001	12.3	1015	12.7	1026	13.4	1037	14.0	1050	14.5	1073	15.6	1096	16.8	1118	18.0
29,664	3200	1005	12.5	1018	12.9	1031	13.5	1043	13.8	1055	14.5	1066	15.1	1078	15.7	1101	16.8	1122	18.0	1144	19.1











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12,978	1400	757	5.43	790	6.10	817	6.77	879	8.26	939	9.77	1000	11.4	1063	13.2	1109	14.9	1161	16.8	1212	18.7
13,905	1500	777	5.86	805	6.55	836	7.23	893	8.74	948	10.3	1006	12.0	1064	13.8	1113	15.6	1167	17.5	1215	19.4
14,832	1600	794	6.37	826	7.09	855	7.78	908	9.29	963	10.9	1011	12.6	1067	14.4	1118	16.2	1172	18.2	1219	20.2
15,759	1700	815	6.88	845	7.64	872	8.33	925	9.91	975	11.5	1025	13.2	1073	15.1	1124	16.9	1177	18.9	1224	20.9
16,686	1800	837	7.50	865	8.19	890	8.95	942	10.5	994	12.2	1040	13.9	1090	15.8	1132	17.7	1183	19.7	1229	21.8
17,613	1900	857	8.12	885	8.88	912	9.64	962	11.2	1010	12.9	1057	14.7	1103	16.5	1143	18.5	1190	20.5	1236	22.6
18,540	2000	879	8.74	907	9.57	932	10.4	982	12.0	1029	13.8	1077	15.6	1119	17.4	1161	19.3	1204	21.4	1245	23.5
19,467	2100	900	9.50	928	10.3	954	11.2	1004	12.9	1050	14.6	1092	16.4	1135	18.3	1178	20.3	1219	22.4	1257	24.5
20,394	2200	923	10.3	949	11.1	975	11.9	1023	13.7	1068	15.5	1113	17.3	1157	19.3	1196	21.3	1235	23.4	1275	25.5
21,321	2300	946	11.0	970	11.9	995	12.8	1045	14.6	1090	16.5	1132	18.4	1175	20.4	1213	22.4	1251	24.6	1291	26.7
22,248	2400	969	11.8	993	12.8	1017	13.8	1067	15.6	1109	17.6	1153	19.5	1192	21.5	1232	23.5	1272	25.7	1310	27.8
23,175	2500	992	12.7	1017	13.8	1040	14.7	1087	16.6	1132	18.7	1171	20.6	1212	22.7	1252	24.7	1290	27.0	1325	29.3
24,102	2600	1016	13.7	1040	14.7	1063	15.7	1108	17.8	1154	19.8	1194	21.9	1234	24.0	1270	26.1	1307	28.3	1343	30.6
25,029	2700	1040	14.7	1063	15.8	1086	16.8	1131	18.9	1175	20.9	1216	23.1	1256	25.3	1291	27.5	1328	29.7	1362	32.0
25,956	2800	1064	15.7	1087	16.8	1110	17.9	1154	20.1	1196	22.2	1238	24.4	1278	26.6	1313	28.9	1348	31.2	1382	33.5
26,883	2900	1087	16.8	1112	18.0	1133	19.1	1177	21.3	1218	23.6	1261	25.8	1297	28.2	1333	30.4	1368	32.8	1402	35.1
27,810	3000	1113	18.0	1136	19.1	1158	20.3	1201	22.6	1241	25.0	1280	27.3	1319	29.6	1356	32.0	1391	34.4	1424	36.8
28,737	3100	1140	19.2	1160	20.4	1182	21.5	1223	24.0	1264	26.4	1302	28.8	1339	31.2	1377	33.6	1412	36.1	1445	38.6
29,664	3200	1165	20.4	1187	21.7	1207	22.9	1247	25.4	1287	27.8	1325	30.4	1361	32.8	1397	35.3	1434	37.9	1467	40.4
30,591	3300	1190	21.9	1211	23.1	1232	24.3	1272	26.8	1312	29.4	1349	32.0	1383	34.6	1419	37.1	1457	39.6	1488	42.3
31,518	3400	1217	23.3	1236	24.5	1257	25.8	1296	28.5	1335	31.0	1371	33.6	1407	36.3	1440	39.0	1477	41.6	1510	44.3
32,445	3500	1244	24.6	1263	26.0	1282	27.3	1321	30.0	1359	32.7	1394	35.4	1430	38.1	1464	41.0	1496	43.6		
33,372	3600	1270	26.2	1289	27.5	1308	29.0	1344	31.7	1387	34.5	1417	37.3	1454	40.0	1487	42.9	1520	45.7		
35,226	3800	1325	29.4	1343	30.8	1359	32.5	1396	35.3	1431	38.2	1467	41.1	1499	44.1	1532	47.0	1565	50.0		
37,080	4000	1379	33.1	1396	34.6	1413	36.1	1447	39.1	1482	42.3	1515	45.4	1548	48.3	1579	51.6	1612	54.7		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 660

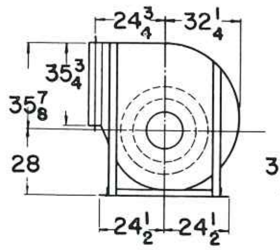
Buffalo Double Inlet Limit-Load Type "BL" Fans

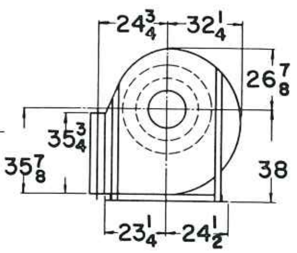
REG. U.S. PAT. OFF.

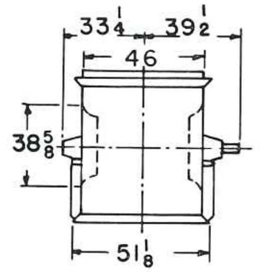
SIZE 660

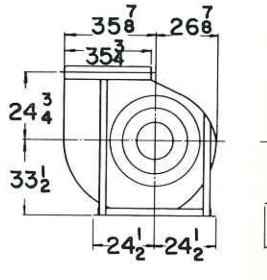
Wheel Diameter 33″. Limit Load H.P. $= 20.83 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 11.27 sq. ft. inside.

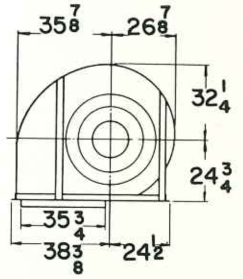
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9,016	800	301	.57	334	.76	362	.96	389	1.16	414	1.39	439	1.63	461	1.89	510	2.43	557	3.02	600	3.64
10,143	900	323	.70	353	.91	381	1.12	406	1.35	429	1.58	452	1.82	473	2.09	517	2.65	559	3.25	603	3.91
11,270	1000	345	.85	374	1.08	401	1.31	425	1.55	447	1.80	470	2.05	491	2.33	528	2.90	567	3.52	607	4.18
12,397	1100	367	1.02	395	1.28	420	1.54	445	1.79	465	2.05	486	2.33	507	2.60	545	3.19	581	3.83	615	4.51
13,524	1200	392	1.22	417	1.50	441	1.77	463	2.06	485	2.34	505	2.63	525	2.92	561	3.53	596	4.18	629	4.87
14,651	1300	416	1.45	440	1.76	462	2.05	484	2.38	505	2.67	525	2.96	544	3.27	579	3.91	613	4.57	644	5.28
15,778	1400	440	1.72	471	2.04	484	2.36	505	2.68	525	3.01	545	3.33	564	3.66	598	4.33	630	5.03	662	5.74
16,905	1500	465	2.02	487	2.34	507	2.69	527	3.04	546	3.39	565	3.75	582	4.10	618	4.80	649	5.52	678	6.26
18,032	1600	491	2.36	512	2.69	533	3.05	549	3.43	568	3.80	587	4.17	603	4.56	636	5.30	668	6.06	697	6.83
19,159	1700	516	2.73	536	3.08	555	3.47	572	3.87	590	4.26	608	4.65	624	5.04	656	5.85	687	6.63	716	7.45
20,286	1800	542	3.15	560	3.52	579	3.92	596	4.34	612	4.77	629	5.17	645	5.59	677	6.43	707	7.23	736	8.12
21,413	1900	568	3.61	586	4.00	603	4.41	619	4.84	636	5.29	652	5.73	667	6.17	698	7.04	727	7.93	754	8.83
22,540	2000	593	4.12	611	4.56	629	4.96	644	5.41	658	5.88	675	6.35	689	6.79	719	7.72	748	8.66	773	9.65
23,667	2100	621	4.62	636	5.16	653	5.55	668	6.02	683	6.50	698	6.98	713	7.48	741	8.42	769	9.41	795	10.4
24,794	2200	647	5.22	663	5.76	678	6.20	694	6.68	708	7.15	721	7.69	737	8.14	763	9.16	790	10.2	816	11.2
25,921	2300	674	5.94	688	6.44	703	6.94	718	7.40	731	7.88	746	8.42	759	8.99	785	9.98	812	11.1	837	12.1
27,048	2400	703	6.62	715	7.11	729	7.72	742	8.19	758	8.66	771	9.16	782	9.82	808	10.9	834	12.0	859	13.1
28,175	2500	727	7.44	741	7.90	754	8.50	768	8.99	782	9.57	794	10.1	807	10.6	832	11.8	856	13.0	879	14.1
29,302	2600	753	8.33	768	8.75	781	9.32	793	9.90	806	10.5	820	11.1	833	11.6	855	12.9	879	14.0	902	15.3
30,429	2700	780	9.24	794	9.65	806	10.3	818	11.0	832	11.5	845	12.0	857	12.6	880	13.9	902	15.1	924	16.4
31,556	2800	807	10.3	823	10.7	833	11.2	845	11.9	857	12.5	869	13.1	881	13.7	904	14.9	925	16.3	949	17.6
32,683	2900	834	11.2	847	11.8	859	12.3	870	13.0	882	13.8	895	14.3	906	14.9	929	16.2	950	17.5	971	18.8
33,810	3000	861	12.5	874	12.9	886	13.4	898	14.1	908	14.9	920	15.5	931	16.2	953	17.3	974	18.8	995	20.1
34,937	3100	888	13.7	901	14.0	912	14.7	924	15.2	934	16.1	944	16.8	956	17.4	977	18.7	998	20.1	1018	21.6
36,064	3200	915	15.0	928	15.4	939	16.2	950	16.5	961	17.4	971	18.2	982	18.8	1003	20.1	1022	21.5	1042	22.9











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15,778	1400	689	6.51	719	7.31	745	8.11	801	9.90	855	11.7	911	13.7	968	15.8	1010	17.9	1058	20.1	1104	22.4
16,905	1500	708	7.03	733	7.85	761	8.66	813	10.5	864	12.4	917	14.4	970	16.5	1014	18.6	1063	21.0	1106	23.3
18,032	1600	724	7.63	752	8.50	779	9.32	827	11.1	877	13.0	921	15.1	972	17.2	1018	19.5	1068	21.8	1111	24.3
19,159	1700	742	8.25	770	9.16	794	9.98	843	11.9	888	13.8	933	15.8	977	18.1	1024	20.3	1072	22.6	1115	25.1
20,286	1800	762	8.99	788	9.82	811	10.7	858	12.6	906	14.6	947	16.7	993	18.9	1031	21.2	1078	23.6	1120	26.1
21,413	1900	781	9.74	807	10.6	831	11.6	876	13.5	920	15.5	963	17.7	1005	19.8	1041	22.2	1084	24.6	1126	27.1
22,540	2000	801	10.5	826	11.5	849	12.5	895	14.4	938	16.5	981	18.6	1019	20.9	1058	23.2	1096	25.7	1134	28.2
23,667	2100	820	11.4	845	12.4	869	13.4	914	15.4	956	17.5	995	19.6	1034	22.0	1073	24.3	1111	26.8	1145	29.4
24,794	2200	840	12.3	865	13.3	888	14.3	932	16.4	973	18.6	1014	20.8	1053	23.2	1090	25.6	1125	28.1	1161	30.6
25,921	2300	861	13.2	884	14.3	907	15.3	952	17.5	993	19.7	1031	22.0	1070	24.4	1105	26.8	1139	29.5	1176	32.0
27,048	2400	882	14.2	904	15.3	927	16.5	972	18.7	1010	21.0	1050	23.4	1085	25.7	1122	28.2	1158	30.8	1193	33.4
28,175	2500	903	15.3	927	16.5	947	17.7	990	19.9	1031	22.4	1067	24.8	1104	27.2	1141	29.6	1175	32.3	1207	35.1
29,302	2600	925	16.4	947	17.7	968	18.8	1009	21.3	1051	23.7	1088	26.2	1124	28.7	1157	31.3	1190	33.9	1223	36.6
30,429	2700	947	17.6	968	18.9	989	20.1	1030	22.7	1070	25.1	1107	27.6	1144	30.3	1176	32.9	1210	35.6	1241	38.4
31,556	2800	970	18.8	990	20.1	1011	21.5	1051	24.1	1090	26.7	1127	29.3	1164	31.9	1196	34.7	1228	37.5	1259	40.2
32,683	2900	990	20.1	1013	21.5	1032	22.9	1072	25.6	1110	28.3	1148	30.9	1181	33.8	1214	36.5	1246	39.3	1277	42.1
33,810	3000	1014	21.5	1035	22.9	1054	24.3	1094	27.1	1131	30.0	1166	32.7	1201	35.5	1235	38.4	1267	41.3	1297	44.1
34,937	3100	1038	23.0	1057	24.4	1077	25.8	1114	28.7	1152	31.6	1186	34.6	1220	37.5	1254	40.3	1286	43.2	1316	46.3
36,064	3200	1061	24.5	1081	26.0	1100	27.5	1136	30.4	1172	33.3	1207	36.5	1240	39.4	1273	42.3	1306	45.4	1336	48.4
37,191	3300	1084	26.2	1103	27.6	1122	29.1	1158	32.2	1195	35.2	1229	38.4	1260	41.5	1293	44.5	1327	47.5	1356	50.7
38,318	3400	1109	27.9	1126	29.4	1145	30.9	1180	34.2	1216	37.2	1249	40.3	1282	43.6	1311	46.8	1346	49.8	1375	53.1
39,445	3500	1133	29.5	1150	31.2	1168	32.8	1203	36.0	1238	39.2	1270	42.5	1303	45.7	1334	49.1	1362	52.2		
40,572	3600	1157	31.4	1174	33.0	1191	34.7	1224	38.0	1263	41.3	1291	44.7	1325	47.9	1354	51.5	1384	54.8		
42,826	3800	1207	35.2	1223	37.0	1238	38.9	1272	42.3	1304	45.8	1336	49.3	1366	52.9	1395	56.4	1425	60.0		
45,080	4000	1256	39.7	1272	41.4	1287	43.2	1318	46.9	1305	50.7	1380	54.4	1410	57.9	1438	61.8	1468	65.5		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 730

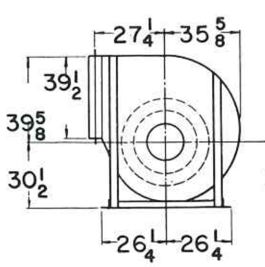
Buffalo Double Inlet Limit-Load Type "BL" Fans

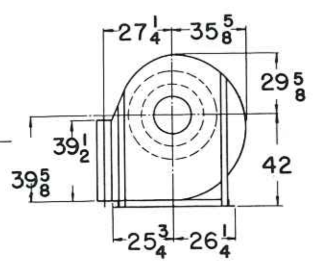
REG. U.S. PAT. OFF.

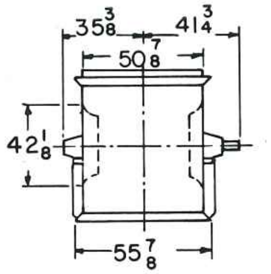
SIZE 730

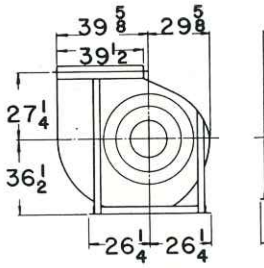
Wheel Diameter 36½". Limit Load H.P. = $33.9 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 13.79 sq. ft. inside.

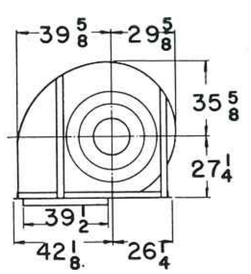
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11,032	800	273	.69	303	.92	328	1.16	353	1.41	375	1.69	398	1.98	418	2.29	462	2.95	505	3.66	544	4.41
12,411	900	293	.85	320	1.10	345	1.36	368	1.63	389	1.92	410	2.21	429	2.53	469	3.21	507	3.94	547	4.74
13,790	1000	313	1.03	339	1.31	364	1.59	385	1.88	405	2.18	426	2.49	445	2.82	479	3.51	514	4.27	550	5.07
15,169	1100	333	1.24	358	1.55	381	1.87	403	2.17	422	2.49	441	2.82	460	3.15	494	3.87	527	4.64	558	5.46
16,548	1200	355	1.48	378	1.82	400	2.15	420	2.50	440	2.83	458	3.19	476	3.54	509	4.28	540	5.07	570	5.90
17,927	1300	377	1.76	398	2.13	419	2.49	439	2.89	458	3.23	476	3.59	493	3.96	525	4.74	556	5.54	584	6.40
19,306	1400	399	2.08	427	2.47	439	2.86	458	3.25	476	3.65	494	4.04	511	4.44	542	5.25	571	6.09	600	6.96
20,685	1500	422	2.45	442	2.84	460	3.26	478	3.68	495	4.11	512	4.54	528	4.97	560	5.82	588	6.69	615	7.59
22,064	1600	445	2.86	464	3.26	483	3.70	498	4.16	515	4.61	532	5.05	547	5.52	577	6.42	606	7.34	632	8.28
23,443	1700	468	3.31	486	3.73	503	4.20	519	4.69	535	5.16	551	5.64	566	6.11	595	7.09	623	8.04	649	9.03
24,822	1800	491	3.82	508	4.26	525	4.75	540	5.26	555	5.78	570	6.27	585	6.78	614	7.79	641	8.76	667	9.84
26,201	1900	515	4.38	531	4.85	547	5.34	561	5.87	577	6.41	591	6.94	605	7.48	633	8.53	659	9.61	684	10.7
27,580	2000	538	4.99	554	5.52	570	6.01	584	6.55	597	7.12	612	7.69	625	8.23	652	9.36	678	10.5	701	11.7
28,959	2100	563	5.60	577	6.25	592	6.73	606	7.29	619	7.88	633	8.46	646	9.06	672	10.2	697	11.4	721	12.6
30,338	2200	587	6.33	601	6.98	615	7.51	629	8.09	642	8.67	654	9.32	668	9.86	692	11.1	716	12.4	740	13.6
31,717	2300	611	7.20	624	7.81	637	8.41	651	8.97	663	9.55	676	10.2	688	10.9	712	12.1	736	13.4	759	14.7
33,096	2400	637	8.02	648	8.62	661	9.35	673	9.93	687	10.5	699	11.1	709	11.9	733	13.2	756	14.5	779	15.9
34,475	2500	659	9.02	672	9.57	684	10.3	696	10.9	709	11.6	720	12.2	732	12.9	754	14.3	776	15.8	797	17.1
35,854	2600	683	10.1	696	10.6	708	11.3	719	12.0	731	12.7	743	13.4	755	14.1	775	15.6	797	17.0	818	18.5
37,233	2700	707	11.2	720	11.7	731	12.5	742	13.3	754	13.9	766	14.6	777	15.3	798	16.8	818	18.3	838	19.9
38,612	2800	732	12.5	746	13.0	755	13.6	766	14.4	777	15.2	788	15.9	799	16.6	820	18.1	839	19.7	860	21.3
39,991	2900	756	13.6	768	14.3	779	14.9	789	15.8	800	16.7	811	17.3	821	18.0	842	19.6	861	21.2	880	22.8
41,370	3000	781	15.1	792	15.6	803	16.2	814	17.1	823	18.0	834	18.8	844	19.6	864	21.0	883	22.8	902	24.4
42,749	3100	805	16.6	817	17.0	827	17.8	838	18.4	847	19.5	856	20.3	867	21.1	886	22.7	905	24.4	923	26.2
44,128	3200	830	18.2	841	18.7	851	19.6	861	20.0	871	21.1	880	22.0	890	22.8	909	24.4	927	26.1	945	27.8











CFM	Outlet Veiocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19,306	1400	625	7.89	652	8.86	675	9.84	726	12.0	775	14.2	826	16.6	878	19.2	916	21.7	959	24.4	1001	27.2
20,685	1500	642	8.52	665	9.51	690	10.5	737	12.7	783	15.0	831	17.5	879	20.0	919	22.6	964	25.4	1003	28.2
22,064	1600	656	9.25	682	10.3	706	11.3	750	13.5	795	15.8	835	18.3	881	20.9	923	23.6	968	26.4	1007	29.4
23,443	1700	673	10.0	698	11.1	720	12.1	764	14.4	805	16.7	846	19.2	886	21.9	928	24.6	972	27.4	1011	30.4
24,822	1800	691	10.9	714	11.9	735	13.0	778	15.3	821	17.7	859	20.2	900	22.9	935	25.7	977	28.6	1015	31.6
26,201	1900	708	11.8	731	12.9	753	14.0	794	16.3	834	18.8	873	21.4	911	24.0	944	26.9	983	29.8	1021	32.8
27,580	2000	726	12.7	749	13.9	770	15.1	811	17.5	850	20.0	889	22.6	924	25.3	959	28.1	994	31.1	1028	34.2
28,959	2100	743	13.8	766	15.0	788	16.2	829	18.7	867	21.2	902	23.8	937	26.6	973	29.5	1007	32.5	1038	35.6
30,338	2200	762	14.9	784	16.1	805	17.3	845	19.9	882	22.5	919	25.2	955	28.1	988	31.0	1020	34.0	1053	37.1
31,717	2300	781	16.0	801	17.3	822	18.6	863	21.2	900	23.9	935	26.7	970	29.6	1002	32.5	1033	35.7	1066	38.8
33,096	2400	800	17.2	820	18.6	840	20.0	881	22.7	916	25.5	952	28.3	984	31.2	1017	34.2	1050	37.3	1082	40.5
34,475	2500	819	18.5	840	20.0	859	21.4	898	24.1	935	27.1	967	30.0	1001	33.0	1034	35.9	1065	39.2	1094	42.5
35,854	2600	839	19.9	859	21.4	878	22.8	915	25.8	953	28.7	986	31.8	1019	34.8	1049	37.9	1079	41.1	1109	44.4
37,233	2700	859	21.3	878	22.9	897	24.4	934	27.5	970	30.4	1004	33.5	1037	36.7	1066	39.9	1097	43.2	1125	46.5
38,612	2800	879	22.8	898	24.4	917	26.0	953	29.2	988	32.3	1022	35.5	1055	38.7	1084	42.0	1113	45.4	1141	48.7
39,991	2900	898	24.4	918	26.1	936	27.7	972	31.0	1006	34.3	1041	37.5	1071	40.9	1101	44.2	1130	47.6	1158	51.0
41,370	3000	919	26.1	938	27.8	956	29.5	992	32.9	1025	36.3	1057	39.6	1089	43.0	1120	46.5	1149	50.0	1176	53.5
42,749	3100	941	27.9	958	29.6	976	31.3	1010	34.8	1044	38.3	1075	41.9	1106	45.4	1137	48.8	1166	52.4	1193	56.1
44,128	3200	962	29.7	980	31.5	997	33.3	1030	36.9	1063	40.4	1094	44.2	1124	47.7	1154	51.3	1184	55.0	1211	58.7
45,507	3300	983	31.8	1000	33.5	1017	35.3	1050	39.0	1083	42.7	1114	46.5	1142	50.3	1172	53.9	1203	57.6	1229	61.4
46,886	3400	1005	33.8	1021	35.6	1038	37.5	1070	41.4	1102	45.1	1132	48.8	1162	52.8	1189	56.7	1220	60.4	1247	64.3
48,265	3500	1027	35.8	1043	37.8	1059	39.7	1091	43.6	1122	47.5	1151	51.5	1181	55.4	1209	59.5	1235	63.3		
49,644	3600	1049	38.0	1064	40.0	1080	42.1	1110	46.1	1145	50.1	1170	54.2	1201	58.1	1228	62.4	1255	66.4		
52,402	3800	1094	42.7	1109	44.8	1122	47.2	1153	51.3	1182	55.5	1211	59.7	1238	64.1	1265	68.3	1292	72.7		
55,160	4000	1139	48.1	1153	50.2	1167	52.4	1195	56.8	1224	61.4	1251	65.9	1278	70.2	1304	74.9	1331	79.4		

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 805

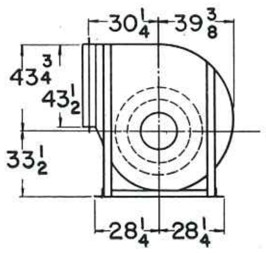
Buffalo Double Inlet Limit-Load Type "BL" Fans

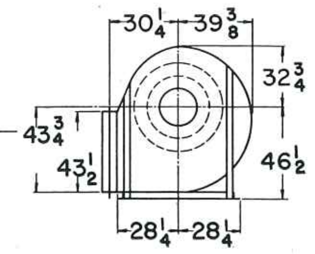
REG. U.S. PAT. OFF.

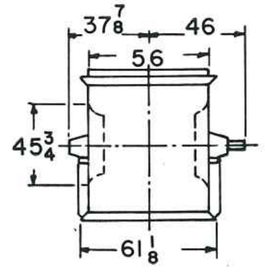
SIZE 805

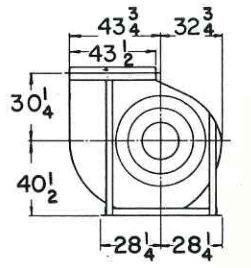
Wheel Diameter 40¼". Limit Load H.P. = $55.4 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 16.78 sq. ft. inside.

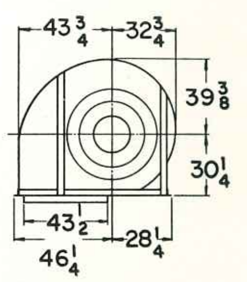
CFM	Outlet Velocity	¼" S.P.		⅜" S.P.		½" S.P.		⅝" S.P.		¾" S.P.		⅞" S.P.		1" S.P.		1¼" S.P.		1½" S.P.		1¾" S.P.	
		RPM	THP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13,424	800	248	.84	275	1.12	297	1.41	320	1.71	340	2.06	361	2.41	379	2.78	419	3.59	458	4.45	493	5.36
15,102	900	266	1.03	290	1.34	313	1.65	334	1.98	353	2.33	372	2.69	389	3.08	425	3.90	460	4.79	496	5.76
16,780	1000	284	1.25	307	1.59	330	1.93	349	2.29	367	2.65	386	3.03	404	3.43	434	4.27	466	5.19	499	6.17
18,458	1100	302	1.51	325	1.88	345	2.27	365	2.64	383	3.03	400	3.43	417	3.83	448	4.71	478	5.64	506	6.64
20,136	1200	322	1.80	343	2.21	363	2.61	381	3.04	399	3.44	415	3.88	432	4.30	462	5.20	490	6.17	517	7.17
21,814	1300	342	2.14	361	2.59	380	3.03	398	3.51	415	3.93	432	4.37	447	4.82	476	5.76	504	6.74	530	7.78
23,492	1400	362	2.53	387	3.00	398	3.48	415	3.95	432	4.44	448	4.91	463	5.40	491	6.38	518	7.41	544	8.46
25,170	1500	383	2.98	401	3.45	417	3.96	433	4.47	449	5.00	464	5.52	479	6.04	508	7.08	533	8.14	558	9.23
26,848	1600	404	3.48	421	3.96	438	4.50	452	5.06	467	5.61	482	6.14	496	6.71	523	7.81	550	8.93	573	10.1
28,526	1700	424	4.02	441	4.54	456	5.11	471	5.70	485	6.27	500	6.86	513	7.43	540	8.62	565	9.78	589	11.0
30,204	1800	445	4.65	461	5.18	476	5.78	490	6.40	503	7.03	517	7.62	530	8.24	557	9.47	581	10.7	605	12.0
31,882	1900	467	5.33	482	5.90	496	6.49	509	7.14	523	7.79	536	8.44	549	9.10	574	10.4	598	11.7	620	13.0
33,560	2000	488	6.07	502	6.71	517	7.31	530	7.96	541	8.66	555	9.35	567	10.0	591	11.4	615	12.8	636	14.2
35,238	2100	511	6.81	523	7.60	537	8.18	550	8.86	561	9.58	574	10.3	586	11.0	609	12.4	632	13.9	654	15.3
36,916	2200	532	7.70	545	8.49	558	9.13	570	9.84	582	10.5	593	11.3	607	12.0	628	13.5	649	15.1	671	16.5
38,594	2300	554	8.76	566	9.50	578	10.2	590	10.9	601	11.6	613	12.4	624	13.3	646	14.7	667	16.3	688	17.9
40,272	2400	578	9.75	588	10.5	599	11.4	610	12.1	623	12.8	634	13.5	643	14.5	665	16.1	686	17.6	706	19.3
41,950	2500	598	11.0	609	11.6	620	12.5	631	13.3	643	14.1	653	14.8	664	15.7	684	17.4	704	19.2	723	20.8
43,628	2600	619	12.3	631	12.9	642	13.7	652	14.6	663	15.4	674	16.3	685	17.1	703	19.0	723	20.7	742	22.5
45,306	2700	641	13.6	653	14.2	663	15.2	673	16.2	684	16.9	695	17.8	705	18.6	724	20.4	742	22.3	760	24.2
46,984	2800	664	15.2	676	15.8	685	16.5	695	17.5	705	18.5	715	19.3	725	20.2	744	22.0	761	24.0	780	25.9
48,662	2900	686	16.5	696	17.4	706	18.1	715	19.2	725	20.3	735	21.0	744	21.9	764	23.8	781	25.8	798	27.7
50,340	3000	708	18.4	718	19.0	728	19.7	738	20.8	746	21.9	756	22.9	765	23.8	783	25.5	801	27.7	818	29.7
52,018	3100	730	20.2	741	20.7	750	21.6	760	22.4	768	23.7	776	24.7	786	25.7	803	27.6	821	29.7	837	31.9
53,696	3200	753	22.1	763	22.7	772	23.8	781	24.3	790	25.7	798	26.8	807	27.7	824	29.7	841	31.7	857	33.8











CFM	Outlet Velocity	2" S.P.		2¼" S.P.		2½" S.P.		3" S.P.		3½" S.P.		4" S.P.		4½" S.P.		5" S.P.		5½" S.P.		6" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23,492	1400	567	9.59	591	10.8	612	12.0	658	14.6	703	17.3	749	20.2	796	23.3	831	26.4	870	29.7	908	33.1
25,170	1500	582	10.4	603	11.6	626	12.8	668	15.4	710	18.2	754	21.3	797	24.3	833	27.5	874	30.9	910	34.3
26,848	1600	595	11.2	618	12.5	640	13.7	680	16.4	721	19.2	757	22.3	799	25.4	837	28.7	878	32.1	913	33.8
28,526	1700	610	12.2	633	13.5	653	14.7	693	17.5	730	20.3	767	23.3	803	26.6	842	29.9	881	33.3	917	37.0
30,204	1800	627	13.3	647	14.5	666	15.8	705	18.6	744	21.5	779	24.6	816	27.8	848	31.3	886	34.8	920	38.4
31,882	1900	642	14.3	663	15.7	683	17.0	720	19.8	756	22.9	792	26.0	826	29.2	856	32.7	891	36.2	926	39.9
33,560	2000	658	15.4	679	16.9	698	18.4	735	21.3	771	24.3	806	27.5	838	30.8	870	34.2	901	37.8	932	41.6
35,238	2100	674	16.8	695	18.2	715	19.7	752	22.7	786	25.8	818	28.9	850	32.3	882	35.9	913	39.5	941	43.3
36,916	2200	691	18.1	711	19.6	730	21.0	766	24.2	800	27.4	833	30.6	866	34.2	896	37.7	925	41.3	955	45.1
38,594	2300	708	19.5	726	21.0	745	22.6	783	25.8	816	29.1	848	32.5	880	36.0	909	39.5	937	43.4	967	47.2
40,272	2400	725	20.9	744	22.6	762	24.3	799	27.6	831	31.0	863	34.4	892	37.9	922	41.6	952	45.4	981	49.2
41,950	2500	743	22.5	762	24.3	779	26.0	814	29.3	848	33.0	877	36.5	908	40.1	938	43.7	966	47.7	992	51.7
43,628	2600	761	24.2	779	26.0	796	27.7	830	31.4	864	34.9	894	38.7	924	42.3	951	46.1	978	50.0	1006	54.0
45,306	2700	779	25.9	796	27.8	813	29.7	847	33.4	880	37.0	910	40.7	940	44.6	967	48.5	995	52.5	1020	56.5
46,984	2800	797	27.7	814	29.7	832	31.6	864	35.5	896	39.3	927	43.2	957	47.1	983	51.1	1009	55.2	1035	59.2
48,662	2900	814	29.7	832	31.7	849	33.7	881	37.7	912	41.7	944	45.6	971	49.7	998	53.7	1025	57.9	1050	62.0
50,340	3000	833	31.7	851	33.8	867	35.9	900	40.0	929	44.1	958	48.2	988	52.3	1016	56.5	1042	60.8	1066	65.1
52,018	3100	853	33.9	869	36.0	885	38.1	916	42.3	947	46.6	975	51.0	1003	55.2	1031	59.3	1057	63.7	1082	68.2
53,696	3200	872	36.1	889	38.3	898	40.5	934	44.9	964	49.1	992	53.7	1019	58.0	1046	62.4	1074	66.9	1098	71.4
55,374	3300	891	38.7	907	40.7	922	42.9	952	47.4	982	51.9	1010	56.5	1036	61.2	1063	65.5	1091	70.0	1114	74.7
57,052	3400	911	41.1	926	43.3	941	45.6	970	50.3	999	54.8	1026	59.3	1054	64.2	1078	68.9	1106	73.4	1131	78.2
58,730	3500	931	43.5	946	46.0	960	48.3	989	53.0	1017	57.8	1044	62.6	1071	67.4	1096	72.4	1120	77.0		
60,408	3600	951	46.2	965	48.6	979	51.2	1007	56.1	1038	60.9	1061	65.9	1089	70.6	1114	75.9	1138	80.7		
63,764	3800	992	51.9	1006	54.5	1017	57.4	1046	62.4	1072	67.5	1098	72.6	1123	77.9	1147	83.1	1172	88.4		
67,120	4000	1033	58.5	1046	61.0	1058	63.7	1084	69.1	1110	74.7	1134	80.1	1159	85.4	1182	91.1	1207	96.7		

Capacities and static pressure at 70° F. and 29.92" barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 890

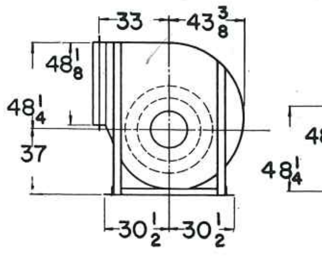
Buffalo Double Inlet Limit-Load Type "BL" Fans

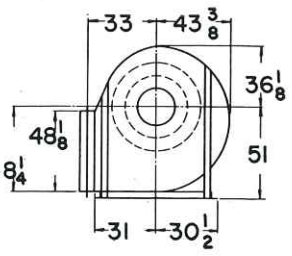
REG. U.S. PAT. OFF.

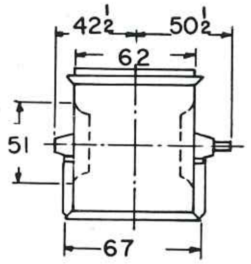
SIZE 890

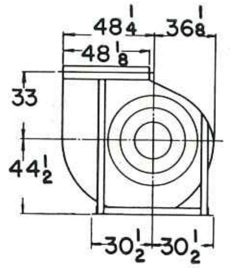
Wheel Diameter 44½″. Limit Load H.P. $= 91.4 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 20.49 sq. ft. inside.

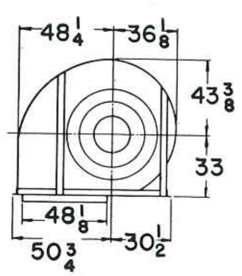
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16,392	800	224	1.03	249	1.37	269	1.72	290	2.10	308	2.51	326	2.94	343	3.40	379	4.38	414	5.44	446	6.55
18,441	900	240	1.26	262	1.63	283	2.02	302	2.42	319	2.85	336	3.28	352	3.76	385	4.77	416	5.85	449	7.04
20,490	1000	257	1.53	278	1.95	299	2.36	316	2.79	332	3.24	349	3.70	365	4.19	393	5.22	422	6.35	451	7.53
22,539	1100	273	1.84	294	2.30	312	2.78	331	3.22	346	3.70	362	4.19	377	4.68	405	5.75	432	6.90	458	8.11
24,588	1200	291	2.20	310	2.70	328	3.19	344	3.72	361	4.21	376	4.74	390	5.26	417	6.36	443	7.53	468	8.77
26,637	1300	309	2.62	326	3.17	344	3.70	360	4.29	376	4.80	390	5.33	404	5.88	431	7.04	456	8.23	479	9.51
28,686	1400	327	3.09	350	3.67	360	4.25	376	4.83	390	5.42	405	6.00	419	6.60	445	7.80	468	9.05	492	10.3
30,735	1500	346	3.64	363	4.22	377	4.84	392	5.47	406	6.11	420	6.75	433	7.39	459	8.65	482	9.94	504	11.3
32,784	1600	365	4.25	381	4.84	396	5.50	408	6.18	422	6.85	436	7.50	449	8.20	473	9.54	497	10.9	518	12.3
34,833	1700	384	4.92	399	5.54	413	6.24	426	6.97	439	7.67	452	8.38	464	9.08	488	10.5	511	11.9	532	13.4
36,882	1800	403	5.68	417	6.33	431	7.06	443	7.82	455	8.59	468	9.32	480	10.1	504	11.6	527	13.0	547	14.6
38,931	1900	422	6.51	436	7.21	449	7.94	460	8.72	473	9.53	485	10.3	496	11.1	519	12.7	541	14.3	561	16.9
40,980	2000	441	7.42	454	8.20	468	8.93	479	9.73	490	10.6	502	11.4	513	12.2	535	13.9	556	15.6	575	17.4
43,029	2100	462	8.32	473	9.29	486	10.0	497	10.8	508	11.7	519	12.6	530	13.5	551	15.2	572	16.9	591	18.7
45,078	2200	481	9.41	493	10.4	504	11.2	516	12.0	527	12.9	536	13.8	548	14.7	568	16.5	587	18.4	607	20.2
47,127	2300	501	10.7	512	11.6	522	12.5	534	13.3	544	14.2	554	15.2	564	16.2	584	18.0	604	19.9	623	21.8
49,176	2400	522	11.9	531	12.8	542	13.9	552	14.8	563	15.6	573	16.5	582	17.7	601	19.6	620	21.5	639	23.6
51,225	2500	541	13.4	551	14.2	561	15.3	571	16.2	582	17.2	591	18.1	600	19.2	618	21.2	636	23.5	654	25.4
53,274	2600	560	15.0	571	15.8	581	16.8	590	17.8	600	18.9	609	19.9	619	21.0	636	23.2	654	25.3	671	27.5
55,323	2700	580	16.6	591	17.4	600	18.6	609	19.8	618	20.7	628	21.7	637	22.7	655	25.0	671	27.2	687	29.6
57,372	2800	600	18.6	612	19.3	619	20.2	628	21.4	637	22.6	646	23.6	655	24.7	673	26.9	688	29.3	705	31.7
59,421	2900	620	20.2	630	21.2	639	22.1	647	23.5	656	24.8	665	25.7	673	26.7	691	29.1	706	31.5	722	33.9
61,470	3000	641	22.4	650	23.2	657	24.1	668	25.4	675	26.7	684	27.9	692	29.1	709	31.2	724	33.9	740	36.3
63,519	3100	660	24.7	670	25.3	678	26.5	687	27.3	695	29.0	702	30.2	711	31.4	727	33.7	742	36.3	757	38.9
65,568	3200	681	27.0	690	27.8	698	29.1	706	29.7	714	31.4	722	32.7	730	33.9	746	36.3	760	38.8	775	41.3











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28,686	1400	513	11.7	535	13.2	554	14.6	595	17.8	636	21.1	677	24.7	720	28.5	751	32.2	787	36.3	821	40.4
30,735	1500	527	12.7	545	14.1	566	15.6	604	18.9	642	22.3	682	26.0	721	29.7	754	33.6	791	37.7	823	41.9
32,784	1600	538	13.7	559	15.3	579	16.8	615	20.1	652	23.5	685	27.2	723	31.1	757	35.1	794	39.2	826	43.7
34,833	1700	552	14.9	572	16.5	591	18.0	627	21.4	660	24.8	694	28.5	727	32.5	761	36.6	797	40.7	829	45.2
36,882	1800	567	16.2	586	17.7	603	19.3	638	22.7	673	26.3	705	30.0	738	34.0	767	38.2	801	42.5	833	47.0
38,931	1900	581	17.5	600	19.2	618	20.8	651	24.2	684	27.9	716	31.8	747	35.7	774	40.0	806	44.3	837	48.7
40,980	2000	595	18.9	614	20.7	632	22.4	665	26.0	697	29.7	729	33.6	758	37.6	787	41.8	815	46.2	843	50.8
43,029	2100	609	20.5	628	22.3	646	24.1	680	27.8	711	31.5	740	35.4	769	39.5	798	43.8	826	48.3	851	52.9
45,078	2200	625	22.1	643	23.9	660	25.7	693	29.6	723	33.4	754	37.4	732	41.8	810	46.1	837	50.5	864	55.1
47,127	2300	641	23.8	657	25.7	674	27.6	708	31.5	738	35.5	767	39.7	796	44.0	822	48.3	847	53.1	874	57.7
49,176	2400	656	25.6	673	27.6	689	29.7	723	33.7	751	37.9	781	42.1	807	46.4	834	50.8	861	55.4	887	60.2
51,225	2500	672	27.5	689	29.7	705	31.8	737	35.8	767	40.3	793	44.6	821	49.0	848	53.3	874	58.3	897	63.2
53,274	2600	688	29.6	705	31.8	720	33.9	750	38.3	782	42.6	809	47.3	836	51.7	860	56.3	885	61.1	910	66.0
55,323	2700	705	31.7	720	34.0	736	36.3	766	40.9	796	45.2	823	49.8	851	54.5	874	59.3	900	64.2	923	69.1
57,372	2800	721	33.9	737	36.3	752	38.6	782	43.4	810	48.0	838	52.8	865	57.5	889	62.4	913	67.5	936	72.4
59,421	2900	737	36.3	753	38.8	768	41.2	797	46.1	825	51.0	854	55.7	878	60.8	903	65.7	927	70.7	950	75.8
61,470	3000	754	38.8	769	41.3	784	43.8	814	48.9	841	53.9	867	58.8	893	63.9	919	69.1	942	74.3	965	79.5
63,519	3100	772	41.5	786	44.0	801	46.5	828	51.7	856	56.9	882	62.3	907	67.5	933	72.5	956	77.9	978	83.4
65,568	3200	789	44.1	804	46.8	818	49.5	845	54.8	872	60.0	897	65.7	922	70.9	947	76.2	971	81.7	993	87.2
67,617	3300	806	47.3	820	49.8	834	52.5	861	58.0	888	63.5	906	69.1	937	74.7	961	80.1	987	85.6	1008	91.2
69,666	3400	824	50.2	837	52.9	851	55.7	878	61.5	904	67.0	928	72.5	953	78.5	975	84.3	1001	89.8	1023	95.5
71,715	3500	842	53.2	855	56.2	869	59.0	895	64.8	920	70.6	944	76.5	969	82.3	992	88.4	1013	94.1		
73,764	3600	860	56.5	873	59.4	886	62.6	910	68.5	939	74.4	960	80.5	985	86.3	1007	92.7	1029	98.7		
77,862	3800	897	63.5	910	66.6	920	70.1	946	76.2	969	82.5	993	88.7	1015	95.3	1038	101.5	1060	108.0		
81,960	4000	934	71.5	946	74.6	957	77.9	980	84.4	1004	91.2	1026	97.9	1048	104.3	1070	111.3	1092	118.0		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 980

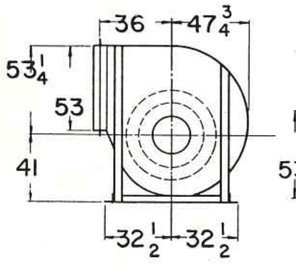
Buffalo Double Inlet Limit-Load Type "BL" Fans

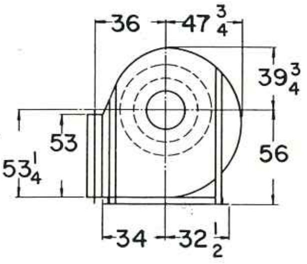
REG. U.S. PAT. OFF.

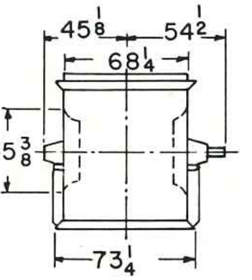
SIZE 980

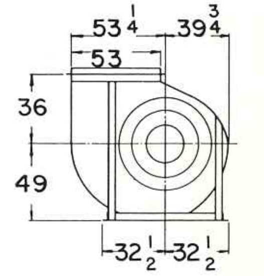
Wheel Diameter 49″. Limit Load H.P. $= 147.0 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 24.85 sq. ft. inside.

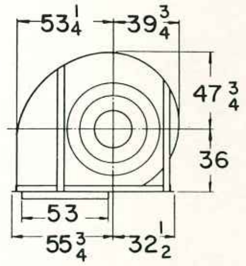
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19,880	800	203	1.24	227	1.66	244	2.09	263	2.54	279	3.05	296	3.57	311	4.13	344	5.32	376	6.60	405	7.95
22,365	900	218	1.53	238	1.98	257	2.45	274	2.94	290	3.46	305	3.98	320	4.56	349	5.79	378	7.10	407	8.54
24,850	1000	233	1.86	253	2.36	271	2.87	287	3.39	302	3.93	317	4.49	331	5.08	357	6.33	383	7.70	410	9.14
27,335	1100	264	2.23	267	2.79	284	3.37	300	3.91	314	4.49	329	5.08	343	5.68	368	6.97	393	8.36	416	9.84
29,820	1200	248	2.27	282	3.28	298	3.87	313	4.51	328	5.10	341	5.75	355	6.38	379	7.71	402	9.14	425	10.6
32,305	1300	281	3.17	296	3.84	312	4.49	327	5.21	341	5.82	354	6.47	367	7.14	391	8.54	414	9.98	435	11.5
34,790	1400	297	3.75	318	4.45	327	5.15	341	5.86	355	6.58	368	7.28	381	8.00	404	9.46	425	11.0	447	12.5
37,275	1500	314	4.42	329	5.12	343	5.88	356	6.63	369	7.41	381	8.18	393	8.96	417	10.5	438	12.1	458	13.7
39,760	1600	331	5.15	347	5.88	360	6.67	371	7.50	384	8.31	396	9.10	407	9.95	430	11.6	451	13.2	471	14.9
42,245	1700	349	5.97	362	6.72	375	7.57	387	8.45	399	9.30	410	10.2	422	11.0	443	12.8	464	14.5	483	16.3
44,730	1800	366	6.88	378	7.68	391	8.56	402	9.48	413	10.4	425	11.3	436	12.2	457	14.0	477	15.8	497	17.7
47,215	1900	384	7.89	396	8.74	407	9.62	418	10.6	430	11.6	440	12.5	451	13.5	472	15.4	491	17.3	510	19.3
49,700	2000	401	8.99	412	9.95	425	10.8	435	11.8	445	12.8	456	13.9	466	14.8	486	16.9	505	18.9	522	21.1
52,185	2100	419	10.1	430	11.3	441	12.1	451	13.1	461	14.2	472	15.2	481	16.3	501	18.4	519	20.5	537	22.7
54,670	2200	437	11.4	448	12.6	458	13.5	469	14.6	478	15.6	488	16.8	498	17.8	515	20.0	533	22.3	551	24.5
57,155	2300	455	13.0	465	14.1	475	15.2	485	16.2	494	17.2	504	18.4	512	19.6	530	21.8	548	24.2	565	26.5
59,640	2400	475	14.5	483	15.5	492	16.9	501	17.9	512	18.9	521	20.0	528	21.4	546	23.8	563	26.1	580	28.7
62,125	2500	491	16.3	501	17.2	510	18.6	518	19.6	528	20.9	536	22.0	545	23.2	562	25.8	578	28.5	594	30.8
64,610	2600	509	18.2	518	19.1	527	20.4	536	21.6	545	22.9	553	24.2	562	25.4	577	28.1	594	30.6	609	33.3
67,095	2700	527	20.2	536	21.1	545	22.5	553	24.0	562	25.1	571	26.3	579	27.6	594	30.3	609	33.0	624	35.9
69,580	2800	545	22.5	556	23.4	562	24.5	571	26.0	579	27.4	587	28.7	595	29.9	611	32.6	625	35.5	641	38.4
72,065	2900	563	24.5	572	25.8	580	26.9	588	28.5	596	30.1	604	31.2	612	32.4	627	35.3	641	38.2	656	41.1
74,550	3000	582	27.2	590	28.1	598	29.2	606	30.8	613	32.4	621	33.9	629	35.3	644	37.8	658	41.1	672	44.0
77,035	3100	600	29.9	609	30.6	616	32.1	624	33.2	631	35.1	638	36.6	646	38.0	660	40.9	674	44.0	688	47.2
79,520	3200	618	32.8	626	33.7	634	35.3	641	36.0	649	38.0	656	39.7	663	41.1	677	44.0	691	47.0	704	50.1











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34,790	1400	466	14.2	486	16.0	503	17.7	541	21.6	577	25.6	615	29.9	654	34.6	682	39.1	714	44.0	746	49.0
37,275	1500	478	15.4	495	17.1	514	18.9	549	22.9	583	27.0	619	31.5	655	36.0	685	40.7	718	45.8	747	50.8
39,760	1600	489	16.7	508	18.6	526	20.4	559	24.3	592	28.5	622	33.0	656	37.7	688	42.5	721	47.6	750	53.0
42,245	1700	501	18.0	520	20.0	536	21.8	569	26.0	600	30.1	630	34.6	660	39.5	691	44.3	724	49.4	753	54.8
44,730	1800	515	19.6	532	21.4	548	23.4	580	27.6	612	31.9	640	36.4	670	41.3	696	46.3	728	51.5	756	57.0
47,215	1900	527	21.3	545	23.2	561	25.2	591	29.4	621	33.9	650	38.6	679	43.3	703	48.5	732	53.7	761	59.1
49,700	2000	541	22.9	558	25.1	574	27.2	604	31.5	633	36.0	662	40.7	688	45.6	714	50.6	740	56.1	766	61.6
52,185	2100	553	24.9	571	27.0	587	29.2	618	33.7	646	38.2	672	42.9	698	47.9	725	53.2	750	58.6	773	64.2
54,670	2200	568	26.9	584	29.0	600	31.2	629	35.9	657	40.6	685	45.4	711	50.6	736	55.9	760	61.3	784	66.9
57,155	2300	582	28.8	597	31.2	612	33.5	643	38.2	670	43.1	696	48.1	723	53.3	746	58.6	769	64.3	794	69.9
59,640	2400	596	31.0	611	33.5	626	36.0	656	40.9	682	46.0	709	51.0	733	56.2	758	61.6	782	67.2	806	73.0
62,125	2500	610	33.3	626	36.0	640	38.6	669	43.4	696	48.8	720	54.1	746	59.5	770	64.7	793	70.7	815	76.6
64,610	2600	625	35.9	640	38.6	654	41.1	682	46.5	710	51.7	735	57.3	759	62.7	781	68.3	804	74.1	826	80.0
67,095	2700	640	38.4	654	41.3	668	44.0	696	49.6	723	54.8	748	60.4	772	66.1	794	71.9	817	77.9	838	83.8
69,580	2800	655	41.1	669	44.0	683	46.9	710	52.6	736	58.2	761	64.0	786	69.7	807	75.7	829	81.8	850	87.8
72,065	2900	669	44.0	684	47.0	697	49.9	724	55.9	749	61.8	775	67.6	798	73.7	820	79.7	842	85.8	863	91.9
74,550	3000	685	47.0	699	50.1	712	53.2	739	59.3	764	65.4	787	71.4	811	77.5	834	83.8	856	90.1	876	96.4
77,035	3100	701	50.3	714	53.3	727	56.4	752	62.7	778	69.0	801	75.5	824	81.8	847	88.0	869	94.4	889	101.1
79,520	3200	717	53.5	730	56.8	743	60.0	767	66.5	792	72.8	815	79.7	837	86.0	860	92.5	882	99.1	902	105.8
82,005	3300	732	57.3	745	60.4	758	63.6	782	70.3	807	77.0	830	83.8	851	90.7	873	97.1	896	103.8	915	110.7
84,490	3400	749	60.9	761	64.2	773	67.6	797	74.6	821	81.3	843	88.0	866	95.2	886	102.2	909	108.9	929	115.9
86,975	3500	765	64.5	777	68.1	789	71.6	813	78.6	836	85.6	857	92.8	880	99.8	901	107.2	920	114.1		
89,460	3600	781	68.5	793	72.1	804	75.9	827	83.1	853	90.3	872	97.7	895	104.7	915	112.5	935	119.7		
94,430	3800	815	77.0	826	80.7	836	85.1	859	92.5	880	100.0	902	107.6	922	115.5	942	131.0	962	131.0		
99,400	4000	848	86.7	858	90.5	869	94.4	890	102.4	912	110.7	932	118.8	952	126.5	971	135.0	991	143.1		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1085

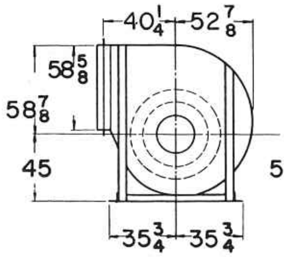
Buffalo Double Inlet Limit-Load Type "BL" Fans

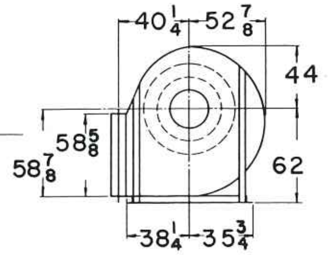
REG. U.S. PAT. OFF.

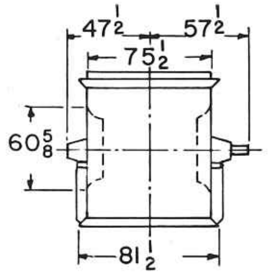
SIZE 1085

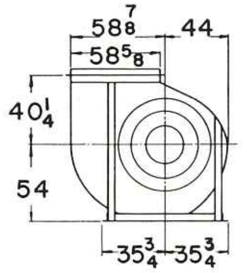
Wheel Diameter 54¼″. **Limit Load H.P. = 245.6 x $\left(\frac{\text{R.P.M.}}{1000}\right)^3$** **Outlet Area 30.46 sq. ft. inside.**

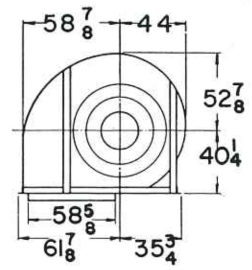
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24,368	800	184	1.52	204	2.03	221	2.56	237	3.11	252	3.73	268	4.37	281	5.06	311	6.52	340	8.09	366	9.74
27,414	900	197	1.88	215	2.43	232	3.00	248	3.60	262	4.24	276	4.88	289	5.59	316	7.09	341	8.70	368	10.5
30,460	1000	211	2.28	228	2.89	245	3.51	259	4.15	272	4.82	287	5.50	299	6.23	322	7.75	346	9.43	370	11.2
33,506	1100	224	2.74	241	3.42	256	4.13	271	4.79	284	5.50	297	6.23	309	6.96	332	8.55	355	10.3	375	12.1
36,552	1200	239	3.27	254	4.02	269	4.75	283	5.52	296	6.25	308	7.05	320	7.82	342	9.45	363	11.2	383	13.0
39,598	1300	254	3.89	268	4.71	282	5.50	295	6.38	308	7.14	320	7.93	332	8.75	353	10.5	374	12.2	393	14.1
42,644	1400	268	4.59	287	5.46	295	6.32	308	7.18	320	8.06	332	8.92	344	9.81	365	11.6	384	13.5	404	15.4
45,690	1500	284	5.41	297	6.27	309	7.20	322	8.13	333	9.08	344	10.0	355	11.0	377	12.9	396	14.8	414	16.8
48,736	1600	299	6.32	312	7.20	325	8.17	335	9.19	346	10.2	358	11.2	368	12.2	388	14.2	408	16.2	425	18.3
51,782	1700	315	7.31	327	8.24	338	9.28	349	10.4	360	11.4	371	12.5	381	13.5	400	15.7	419	17.8	437	19.9
54,828	1800	330	8.44	342	9.41	353	10.5	363	11.6	373	12.8	383	13.9	394	15.0	413	17.2	431	19.4	449	21.7
57,874	1900	346	9.68	357	10.7	368	11.8	377	13.0	388	14.2	398	15.3	407	16.5	426	18.8	443	21.2	460	23.6
60,920	2000	362	11.0	373	12.2	383	13.3	393	14.5	402	15.7	412	17.0	421	18.2	439	20.7	456	23.2	472	25.8
63,966	2100	379	12.4	388	13.8	398	14.9	408	16.1	416	17.4	426	18.7	435	20.0	452	22.5	469	25.2	485	27.8
67,012	2200	395	14.0	404	15.4	414	16.6	423	17.9	432	19.2	440	20.6	449	21.8	466	24.5	482	27.4	498	30.0
70,058	2300	411	15.9	420	17.3	429	18.6	438	19.8	446	21.1	455	22.5	463	24.1	479	26.7	495	29.6	511	32.5
73,104	2400	429	17.7	436	19.0	445	20.7	453	21.9	462	23.2	470	24.5	477	26.3	493	29.2	509	32.0	524	35.1
76,150	2500	443	19.9	452	21.1	460	22.8	468	24.1	477	25.6	484	27.0	492	28.5	507	31.6	522	34.9	536	37.8
79,196	2600	460	22.3	468	23.4	476	25.0	484	26.5	492	28.1	500	29.6	508	31.1	521	34.5	536	37.6	550	40.9
82,242	2700	476	24.7	484	25.8	492	27.6	499	29.4	507	30.7	515	32.3	523	33.8	537	37.1	550	40.4	564	44.0
85,288	2800	492	27.6	502	28.7	508	30.0	515	31.8	523	33.6	530	35.1	538	36.7	552	40.0	564	43.5	579	47.1
88,334	2900	509	30.0	517	31.6	524	32.9	531	34.9	538	36.9	546	38.2	552	39.8	566	43.3	579	46.8	592	50.4
91,380	3000	525	33.4	533	34.5	540	35.8	548	37.8	554	39.8	561	41.5	568	43.3	581	46.4	594	50.4	607	53.9
94,426	3100	542	36.7	550	37.6	556	39.3	564	40.6	570	43.1	576	44.8	583	46.6	596	50.1	609	53.9	621	57.9
97,472	3200	558	40.2	566	41.3	573	43.3	579	44.2	586	46.6	592	48.6	599	50.4	612	53.9	624	57.7	636	61.4











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
42,644	1400	421	17.4	439	19.6	454	21.7	488	26.5	521	31.4	556	36.7	591	42.4	616	47.9	645	53.9	673	60.1
45,690	1500	432	18.8	447	21.0	464	23.2	496	28.1	527	33.1	559	38.7	592	44.2	618	49.9	649	56.1	675	62.3
48,736	1600	441	20.4	459	22.8	475	25.0	505	29.8	535	34.9	562	40.4	593	46.2	620	52.1	651	58.3	678	64.9
51,782	1700	453	22.1	470	24.5	484	26.7	514	31.8	542	36.9	569	42.4	596	48.4	624	54.3	654	60.5	680	67.2
54,828	1800	465	24.1	480	26.3	495	28.7	523	33.8	552	39.1	578	44.6	606	50.6	629	56.8	657	63.2	683	69.8
57,874	1900	476	26.1	492	28.5	507	30.9	534	36.0	561	41.5	587	47.3	613	53.0	635	59.4	661	65.8	687	72.5
60,920	2000	488	28.1	504	30.7	518	33.4	546	38.7	572	44.2	598	49.9	622	55.9	645	62.1	669	68.7	692	75.6
63,966	2100	500	30.5	515	33.1	530	35.8	558	41.3	583	46.8	607	52.6	630	58.8	655	65.2	678	71.8	698	78.6
67,012	2200	513	32.9	527	35.6	542	38.2	569	44.0	593	49.7	618	55.7	643	62.1	665	68.5	686	75.1	708	82.0
70,058	2300	525	35.3	539	38.2	553	41.1	581	46.8	606	52.8	629	59.0	653	65.4	674	71.8	695	78.9	717	85.7
73,104	2400	538	38.0	552	41.1	565	44.2	593	50.1	616	56.3	641	62.5	662	68.9	684	75.6	706	82.4	728	89.5
76,150	2500	551	40.9	565	44.2	578	47.3	604	53.2	629	59.9	651	66.3	673	72.9	696	79.3	717	86.6	736	93.9
79,196	2600	564	44.0	578	47.3	591	50.4	616	57.0	641	63.4	663	70.2	686	76.9	706	83.7	726	90.8	746	98.1
82,242	2700	578	47.1	591	50.6	604	53.9	628	60.8	653	67.2	675	74.0	698	81.1	717	88.1	738	95.4	757	102.7
85,288	2800	591	50.4	604	53.9	617	57.4	641	64.5	665	71.4	688	78.4	710	85.5	729	92.8	749	100.3	768	107.6
88,334	2900	604	53.9	618	57.7	630	61.2	654	68.5	677	75.8	700	82.8	721	90.4	741	97.6	760	105.2	779	112.7
91,380	3000	618	57.7	631	61.4	643	65.2	667	72.7	690	80.2	711	87.5	733	95.0	754	102.7	773	110.5	791	118.2
94,426	3100	633	61.6	645	65.4	657	69.1	680	76.9	702	84.6	723	92.6	744	100.3	765	107.8	784	115.8	803	123.9
97,472	3200	647	65.6	659	69.6	671	73.6	693	81.5	715	89.2	736	97.6	756	105.4	776	113.3	797	121.5	815	129.7
100,518	3300	661	70.2	673	74.0	684	78.0	706	86.2	729	94.3	749	102.7	768	111.1	789	119.1	809	127.2	827	135.6
103,564	3400	676	74.7	687	78.6	698	82.8	720	91.5	741	99.6	762	107.8	782	116.6	800	125.3	821	133.4	839	142.0
106,610	3500	691	79.1	702	83.5	712	87.7	734	96.3	755	104.9	774	113.8	795	122.4	813	131.4	831	139.8		
109,656	3600	706	83.9	716	88.4	727	93.0	747	101.8	770	110.7	787	119.7	808	128.3	826	137.8	844	146.7		
115,748	3800	736	94.3	746	99.0	755	104.3	776	113.3	795	122.6	815	131.9	833	141.6	851	150.9	869	160.6		
121,840	4000	766	106.3	776	110.9	785	115.8	804	125.5	824	135.6	842	145.6	860	155.1	877	165.5	895	175.4		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

SIZE 1200

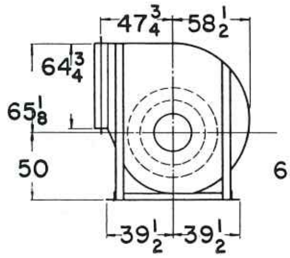
Buffalo Double Inlet Limit-Load Type "BL" Fans

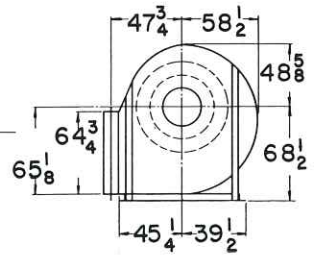
REG. U.S. PAT. OFF.

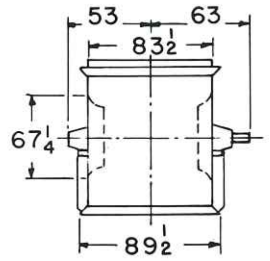
SIZE 1200

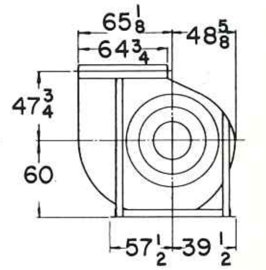
Wheel Diameter 60″. **Limit Load H.P. = 387.8 x $\left(\frac{\text{R.P.M.}}{1000}\right)^3$** **Outlet Area 37.26 sq. ft. inside.**

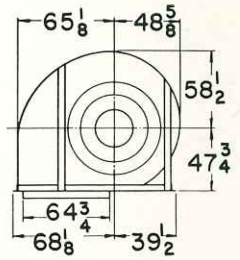
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29,808	800	168	1.83	186	2.44	202	3.08	217	3.74	230	4.49	245	5.25	257	6.08	284	7.83	310	9.71	334	11.7
33,534	900	180	2.26	197	2.92	212	3.61	226	4.33	239	5.10	252	5.87	264	6.71	288	8.52	312	10.5	336	12.6
37,260	1000	192	2.73	208	3.48	224	4.22	237	4.99	249	5.71	262	6.61	273	7.48	294	9.32	316	11.3	338	13.5
40,986	1100	205	3.29	220	4.11	234	4.96	248	5.76	259	6.61	271	7.48	283	8.36	304	10.3	324	12.3	343	14.5
44,712	1200	218	3.93	232	4.83	246	5.71	258	6.64	270	7.51	281	8.47	292	9.40	313	11.4	332	13.5	350	15.7
48,438	1300	232	4.67	245	5.65	257	6.61	270	7.67	281	8.57	292	9.53	303	10.5	323	12.6	342	14.7	359	17.0
52,164	1400	245	5.52	262	6.56	270	7.59	281	8.63	292	9.69	304	10.7	314	11.8	333	13.9	351	16.2	369	18.5
55,890	1500	259	6.50	272	7.54	283	8.65	294	9.77	304	10.9	315	12.0	324	13.2	344	15.4	361	17.8	378	20.1
59,616	1600	273	7.59	285	8.65	297	9.82	306	11.0	316	12.2	327	13.4	336	14.7	355	17.0	372	19.5	388	22.0
63,342	1700	288	8.78	299	9.90	309	11.1	319	12.4	329	13.7	339	15.0	348	16.2	366	18.8	383	21.3	399	24.0
67,068	1800	302	10.1	312	11.3	323	12.6	332	14.0	341	15.3	350	16.6	359	18.0	377	20.7	394	23.2	410	26.1
70,794	1900	316	11.6	326	12.9	336	14.2	345	15.6	355	17.0	363	18.4	372	19.9	389	22.6	405	25.5	420	28.4
74,520	2000	331	13.2	340	14.7	350	16.0	359	17.4	367	18.9	376	20.4	384	21.8	401	24.8	417	27.9	431	31.1
78,246	2100	346	14.9	355	16.6	364	17.9	372	19.3	380	20.9	389	22.5	397	24.0	413	27.1	428	30.3	443	33.4
81,972	2200	361	16.8	369	18.5	378	19.9	386	21.5	394	23.0	402	24.7	410	26.2	425	29.5	440	32.9	455	36.1
85,698	2300	375	19.1	383	20.7	391	22.3	400	23.8	407	25.3	415	27.1	423	28.9	437	32.1	452	35.6	466	39.0
89,424	2400	391	21.3	398	22.9	406	24.8	413	26.4	422	27.9	429	29.5	436	31.6	450	35.0	464	38.5	479	42.2
93,150	2500	405	23.9	413	25.4	420	27.3	428	28.9	436	30.8	442	32.4	450	34.2	463	38.0	477	41.9	490	45.4
96,876	2600	420	26.8	428	28.1	435	30.0	442	31.8	449	33.7	456	35.6	464	37.4	476	41.4	490	45.1	503	49.1
100,602	2700	434	29.7	442	31.1	449	33.2	456	35.3	463	36.9	471	38.7	477	40.6	490	44.6	503	48.6	515	52.8
104,328	2800	450	33.2	458	34.5	464	36.1	471	38.2	477	40.3	484	42.2	491	44.1	504	48.0	515	52.3	528	56.5
108,540	2900	464	36.1	472	38.0	479	39.5	485	41.9	492	44.3	498	45.9	504	47.8	517	52.0	529	56.3	541	60.5
111,780	3000	480	40.1	487	41.4	493	43.0	500	45.4	506	47.8	512	49.9	519	52.0	531	55.7	543	60.5	554	64.8
115,506	3100	495	44.1	502	45.1	508	47.2	515	48.8	520	51.8	526	53.9	533	56.0	544	60.2	556	64.8	567	69.5
119,232	3200	510	48.3	517	49.6	523	52.0	529	53.1	535	56.0	541	58.4	547	60.5	558	64.8	570	69.3	581	73.8











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
52,164	1400	384	20.9	401	23.5	415	26.1	446	31.8	476	37.7	507	44.1	539	51.0	563	57.6	589	64.8	615	72.2
55,890	1500	394	22.6	409	25.2	424	27.9	453	33.7	481	39.8	511	46.4	540	53.1	565	60.0	592	67.4	616	74.8
59,616	1600	403	24.5	419	27.3	434	30.0	461	35.8	488	41.9	513	48.6	541	55.5	567	62.6	595	70.1	619	78.0
63,342	1700	413	26.5	429	29.5	442	32.1	469	38.2	495	44.3	520	51.0	544	58.1	570	65.3	597	72.7	621	80.7
67,068	1800	425	28.9	439	31.6	452	34.5	478	40.6	504	47.0	528	53.6	553	60.8	574	68.2	600	75.9	624	83.9
70,794	1900	435	31.3	449	34.2	463	37.2	488	43.3	512	49.9	536	56.8	560	63.7	580	71.4	604	79.1	627	87.1
74,520	2000	446	33.7	460	36.9	473	40.1	498	46.4	522	53.1	544	60.0	568	67.1	589	74.6	611	82.5	632	90.8
78,246	2100	456	36.6	471	39.8	484	43.0	509	49.6	533	56.3	554	63.2	576	70.6	598	78.3	619	86.3	638	94.5
81,972	2200	468	39.5	482	42.7	495	45.9	519	52.8	542	59.7	565	66.9	587	74.6	607	82.3	627	90.2	647	98.5
85,698	2300	480	42.5	492	45.9	505	49.4	530	56.3	553	63.4	574	70.9	596	78.6	616	86.3	635	94.7	655	103.0
89,424	2400	492	45.6	504	49.4	516	53.1	541	60.2	563	67.7	585	75.1	605	82.8	625	90.8	645	99.0	665	107.5
93,150	2500	503	49.1	516	53.1	528	56.8	552	64.0	574	71.9	594	79.6	615	87.6	635	95.3	654	104.0	672	112.8
96,876	2600	515	52.8	528	56.8	539	60.5	562	68.5	586	76.2	606	84.4	626	90.2	645	100.6	663	109.1	681	117.8
100,602	2700	528	56.5	539	60.8	551	64.8	574	73.0	596	80.7	617	88.9	637	97.4	655	105.9	674	114.7	691	123.4
104,328	2800	540	60.5	552	64.8	563	69.0	586	77.5	607	85.7	628	94.2	648	102.7	666	111.5	684	120.5	701	129.2
108,540	2900	552	64.8	564	69.3	575	73.5	597	82.3	618	91.0	640	99.5	658	108.5	676	117.3	694	126.3	711	135.4
111,780	3000	565	69.3	576	73.8	587	78.3	609	87.3	630	96.3	649	105.1	669	114.1	688	123.4	706	132.7	723	142.0
115,506	3100	578	74.0	589	78.6	600	83.1	621	92.4	641	101.6	660	111.2	680	120.5	699	129.5	716	139.1	733	148.9
119,232	3200	591	78.8	602	83.6	613	88.4	633	97.9	653	107.2	672	117.3	691	126.6	709	136.2	727	146.0	744	155.8
122,958	3300	604	84.4	614	88.9	625	93.7	645	103.5	665	113.3	684	123.4	702	133.5	720	143.1	739	152.9	755	163.0
126,684	3400	617	89.7	627	94.5	638	99.5	657	109.9	677	119.7	696	129.5	714	140.1	731	150.5	750	160.3	766	170.7
130,410	3500	631	95.0	641	100.3	651	105.4	670	115.7	689	126.1	707	136.7	726	147.0	743	157.9	759	168.0		
134,136	3600	645	100.9	654	106.2	664	111.7	682	122.3	703	133.0	719	143.8	738	154.2	754	165.6	771	176.2		
141,588	3800	672	113.3	681	118.9	689	125.3	708	136.2	726	147.3	744	158.4	761	170.1	777	181.3	794	192.9		
149,040	4000	700	127.7	708	133.2	717	139.1	734	150.7	752	163.0	769	174.9	785	186.3	801	198.8	818	210.7		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

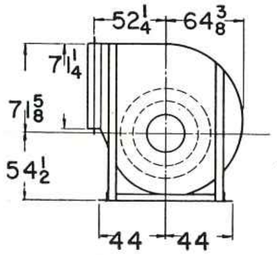
SIZE 1320

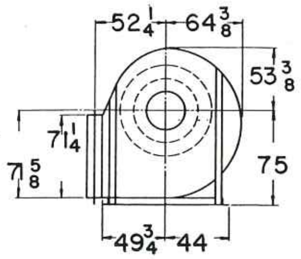
Buffalo Double Inlet Limit-Load Type "BL" Fans

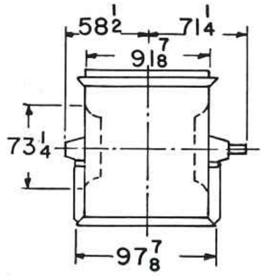
SIZE 1320

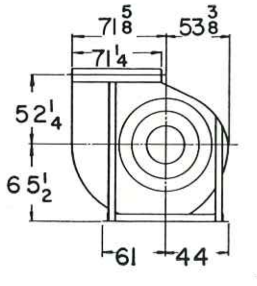
Wheel Diameter 66″. **Limit Load H.P.** $= 624.6 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ **Outlet Area 45.09 sq. ft. inside.**

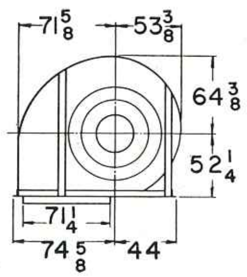
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36,072	800	152	2.22	169	2.95	183	3.72	197	4.53	209	5.43	222	6.36	233	7.35	258	9.47	282	11.8	304	14.2
40,581	900	164	2.73	179	3.53	193	4.37	206	5.23	217	6.16	229	7.10	240	8.12	262	10.3	283	12.7	305	15.2
45,090	1000	175	3.31	189	4.21	203	5.11	215	6.04	226	7.00	238	7.99	249	9.05	268	11.3	287	13.7	307	16.3
49,599	1100	186	3.98	200	4.98	213	6.00	225	6.97	236	7.99	246	9.05	257	10.1	276	12.4	294	14.9	312	17.5
54,108	1200	198	4.75	211	5.84	223	6.90	235	8.03	246	9.09	256	10.2	266	11.4	284	13.7	302	16.3	318	18.9
58,617	1300	211	5.65	222	6.84	234	7.99	245	9.28	256	10.4	266	11.5	275	12.7	293	15.2	311	17.8	326	20.5
63,126	1400	223	6.68	238	7.93	245	9.18	256	10.4	266	11.7	276	13.0	285	14.3	303	16.9	319	19.6	335	22.3
67,635	1500	236	7.87	247	9.12	257	10.5	267	11.8	276	13.2	286	14.6	295	16.0	313	18.7	328	21.5	343	24.4
72,144	1600	249	9.18	259	10.5	270	11.9	278	13.4	288	14.8	297	16.2	305	17.7	322	20.6	338	23.6	353	26.6
76,653	1700	261	10.6	271	12.0	281	13.5	290	15.1	299	16.6	308	18.1	316	19.6	332	22.8	348	25.8	362	29.0
81,162	1800	274	12.3	284	13.7	293	15.3	302	16.9	310	18.6	318	20.1	327	21.8	343	25.0	358	28.1	373	31.6
85,671	1900	288	14.1	297	15.6	305	17.1	313	18.8	322	20.6	330	22.3	338	24.0	354	27.4	368	30.9	382	34.4
90,180	2000	300	16.0	309	17.7	318	19.3	326	21.0	333	22.9	342	24.7	349	26.4	364	30.1	379	33.7	392	37.6
94,689	2100	314	18.0	322	20.1	331	21.6	338	23.4	346	25.3	354	27.2	361	29.1	375	32.7	389	36.6	403	40.5
99,198	2200	328	20.3	336	22.4	343	24.1	351	26.0	359	27.8	365	29.9	373	31.7	386	35.6	400	39.8	413	43.7
103,707	2300	341	23.1	349	25.1	356	27.0	364	28.8	370	30.7	378	32.7	384	35.0	398	38.8	411	43.0	424	47.2
108,216	2400	356	25.7	362	27.7	369	30.0	376	31.9	384	33.7	390	35.6	396	38.2	409	42.4	422	46.6	435	51.1
112,725	2500	368	29.0	375	30.7	382	33.1	389	35.0	396	37.2	402	39.2	409	41.4	421	45.9	433	50.7	445	54.9
117,234	2600	381	32.4	389	34.0	395	36.3	402	38.5	408	40.8	415	43.0	422	45.3	433	50.1	445	54.6	457	59.4
121,743	2700	395	36.0	402	37.6	408	40.1	414	42.7	421	44.6	428	46.9	434	49.1	446	53.9	457	58.8	468	63.9
126,252	2800	409	40.1	417	41.7	422	43.7	428	46.2	434	48.8	440	51.1	446	53.3	458	58.1	469	63.3	480	68.4
130,761	2900	422	43.7	429	45.9	435	47.8	441	50.7	447	53.6	453	55.5	459	57.8	470	62.9	481	68.1	491	73.2
135,270	3000	436	48.5	442	50.1	448	52.0	455	54.9	460	57.8	466	60.4	471	62.9	483	67.4	493	73.2	504	78.3
139,779	3100	450	53.3	456	54.6	462	57.2	468	59.1	473	62.6	478	65.2	484	67.7	495	72.9	505	78.3	515	84.1
144,288	3200	464	58.4	470	60.0	475	62.9	481	64.2	486	67.7	491	70.6	497	73.2	508	78.3	518	83.8	528	89.3











CFM	Outlet Velocity	2″ S.P.		2 ¼″ S.P.		2 ½″ S.P.		3″ S.P.		3 ½″ S.P.		4″ S.P.		4 ½″ S.P.		5″ S.P.		5 ½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
63,126	1400	349	25.3	364	28.4	377	31.6	405	38.5	433	45.6	461	53.3	490	61.6	512	69.7	536	78.3	559	87.3
67,635	1500	359	27.4	371	30.5	385	33.7	412	40.8	437	48.2	464	56.2	491	64.2	513	72.6	538	81.6	560	90.5
72,144	1600	366	29.7	381	33.1	394	36.3	419	43.3	444	50.7	466	58.8	492	67.1	515	75.8	541	84.8	562	94.4
76,653	1700	376	32.1	390	35.6	402	38.8	427	46.2	450	53.6	472	61.6	495	70.3	518	79.0	543	88.0	565	97.6
81,162	1800	386	35.0	399	38.2	410	41.7	435	49.1	459	56.8	480	64.9	503	73.5	522	82.5	546	91.8	567	101.5
85,671	1900	395	37.9	408	41.4	421	44.9	443	52.3	466	60.4	488	68.7	509	77.1	527	86.4	549	95.7	570	105.3
90,180	2000	405	40.8	418	44.6	430	48.5	453	56.2	475	64.2	497	72.6	516	81.2	536	90.2	555	99.9	574	109.8
94,689	2100	415	44.3	428	48.2	440	52.0	463	60.0	484	68.1	504	76.4	523	85.4	543	94.7	562	104.3	580	114.3
99,198	2200	426	47.8	438	51.7	450	55.5	472	63.9	493	72.2	513	80.9	533	90.2	552	99.5	570	109.2	588	119.1
103,707	2300	436	51.4	447	55.5	459	59.7	482	68.1	503	76.7	522	85.7	542	95.0	560	104.3	577	114.6	595	124.6
108,216	2400	447	55.2	458	59.7	469	64.2	492	72.9	512	81.9	532	90.9	550	100.2	568	109.8	586	119.8	604	130.0
112,725	2500	457	59.4	469	64.2	480	68.7	502	77.4	522	87.0	540	86.3	559	106.0	577	115.3	595	125.9	611	136.5
117,234	2600	469	63.9	480	68.7	490	73.2	511	82.8	532	92.1	551	102.1	569	111.7	586	121.7	603	132.0	619	142.6
121,743	2700	480	68.4	490	73.5	501	78.3	522	88.3	542	97.6	561	107.6	579	117.8	595	128.1	613	138.7	628	149.3
126,252	2800	491	73.2	502	78.3	512	83.5	532	93.8	552	103.7	571	114.0	589	124.3	605	134.8	622	145.8	637	156.4
130,761	2900	502	78.3	513	83.8	523	88.9	543	99.5	562	110.1	581	120.4	598	131.3	615	141.9	631	152.8	647	163.7
135,270	3000	513	83.8	524	89.3	534	94.7	554	105.6	572	116.5	590	127.1	608	138.1	626	149.3	642	160.5	657	171.8
139,779	3100	526	89.6	535	95.0	545	100.5	564	111.7	583	123.0	600	134.5	618	145.8	635	156.7	651	168.2	666	180.1
144,288	3200	537	95.4	547	101.1	557	106.9	575	118.5	594	129.7	611	141.9	628	153.2	645	164.7	661	176.6	676	188.5
148,797	3300	549	102.1	559	107.6	568	113.3	586	125.2	605	137.1	622	149.3	638	161.5	655	173.1	672	184.9	686	197.1
153,306	3400	561	108.5	570	114.3	580	120.4	598	132.9	615	144.8	632	156.7	649	169.5	664	182.0	681	193.9	696	206.4
157,815	3500	574	114.9	583	121.4	591	127.5	609	140.0	627	152.5	643	165.4	660	177.9	675	191.0	690	203.2		
162,324	3600	586	122.0	594	128.4	603	135.2	620	148.0	639	160.9	653	174.0	671	196.5	686	200.3	701	213.2		
171,342	3800	611	137.1	619	143.8	627	151.5	644	164.7	660	178.2	676	191.7	691	205.8	707	219.3	722	233.4		
180,360	4000	636	154.4	644	161.2	652	168.2	667	182.4	684	197.1	699	211.6	714	225.4	728	240.5	743	254.9		

Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

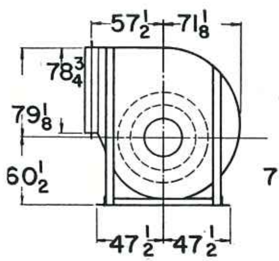
SIZE 1460

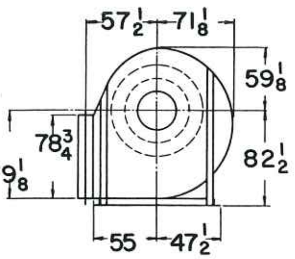
Buffalo Double Inlet Limit-Load Type "BL" Fans

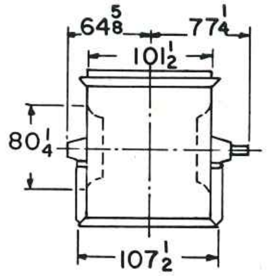
SIZE 1460

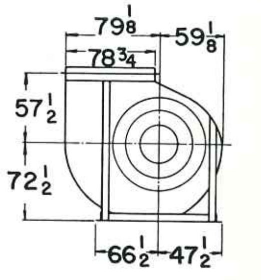
Wheel Diameter 73″. **Limit Load H.P.** $= 1033.9 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ **Outlet Area 55.16 sq. ft. inside.**

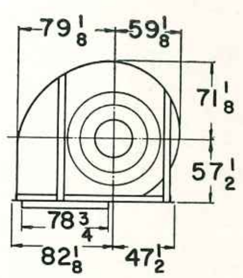
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1 ¼″ S.P.		1 ½″ S.P.		1 ¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44,128	800	138	2.71	153	3.61	166	4.56	178	5.54	189	6.64	201	7.78	211	9.00	233	11.6	255	14.4	275	17.3
49,644	900	148	3.34	162	4.32	174	5.34	186	6.40	196	7.54	207	8.68	217	9.94	237	12.6	256	15.5	276	18.6
55,160	1000	158	4.05	171	5.15	184	6.25	194	7.38	205	8.56	215	9.78	225	11.1	242	13.8	260	16.8	278	19.9
60,676	1100	168	4.87	181	6.09	192	7.35	204	8.52	213	9.78	223	11.1	232	12.4	249	15.2	266	18.2	282	21.4
66,192	1200	179	5.81	191	7.15	202	8.45	212	9.82	222	11.1	231	12.5	240	13.9	257	16.8	273	19.9	288	23.2
71,708	1300	190	6.91	201	8.37	212	9.78	222	11.4	231	12.7	240	14.1	249	15.6	265	18.6	281	21.8	295	25.1
77,224	1400	201	8.17	216	9.70	222	11.2	231	12.8	240	14.3	249	15.9	258	17.4	274	20.6	288	23.9	303	27.3
82,740	1500	213	9.62	223	11.2	232	12.8	241	14.5	250	16.1	259	17.8	267	19.5	283	22.9	297	26.3	311	29.8
88,256	1600	225	11.2	234	12.8	244	14.5	251	16.3	260	18.1	269	19.8	276	21.7	291	25.2	306	28.8	319	32.5
93,772	1700	236	13.0	245	14.7	254	16.5	262	18.4	270	20.3	278	22.2	286	24.0	300	27.8	315	31.6	328	35.5
99,288	1800	248	15.0	257	16.7	265	18.7	273	20.7	280	22.7	288	24.6	295	26.6	310	30.6	324	34.4	337	38.7
104,804	1900	260	17.2	268	19.1	276	21.0	283	23.1	291	25.2	298	27.3	306	29.4	320	33.5	333	37.7	345	42.0
110,320	2000	272	19.6	280	21.7	288	23.6	295	25.7	301	28.0	309	30.2	316	32.3	329	36.8	342	41.2	354	46.0
115,836	2100	284	22.0	291	24.6	299	26.4	306	28.6	313	31.0	320	33.2	326	35.6	339	40.1	352	44.8	364	49.5
121,352	2200	296	24.9	304	27.4	311	29.5	318	31.8	324	34.1	330	36.6	337	38.7	349	43.6	362	48.7	374	53.4
126,868	2300	309	28.3	315	30.7	322	33.0	329	35.2	335	37.5	341	40.1	347	42.8	360	47.5	372	52.6	383	57.7
132,384	2400	322	31.5	327	33.9	334	36.7	340	39.0	347	41.2	353	43.6	358	46.7	370	51.8	382	57.0	393	62.5
137,900	2500	333	35.4	339	37.6	345	40.5	351	42.8	358	45.6	364	47.9	370	50.7	381	56.2	392	62.1	402	67.2
143,416	2600	345	39.7	351	41.6	358	44.4	363	47.1	369	49.9	375	52.6	381	55.4	391	61.3	402	66.8	413	72.7
148,932	2700	357	44.0	364	46.0	369	49.1	375	52.2	381	54.6	387	57.6	392	60.1	403	66.0	413	71.9	423	78.2
154,448	2800	370	49.1	377	51.1	381	53.4	387	56.6	392	59.7	398	62.5	403	65.2	414	71.1	424	77.4	434	83.7
159,964	2900	382	53.4	388	56.2	393	58.5	398	62.1	404	65.6	410	68.0	415	70.7	425	77.0	435	83.3	444	89.6
165,480	3000	394	59.3	400	61.3	406	63.6	411	67.2	416	70.7	421	73.8	426	77.0	436	82.5	446	89.6	456	95.8
170,996	3100	407	65.2	413	66.8	418	69.9	423	72.3	428	76.6	432	79.7	438	82.9	447	89.2	457	95.8	466	102.9
176,512	3200	419	71.5	425	73.5	430	77.0	435	78.6	440	82.9	444	86.4	449	89.6	459	95.8	468	102.5	477	109.2











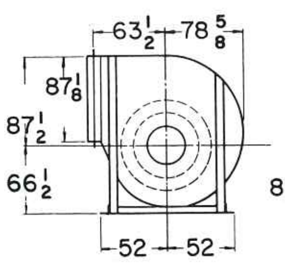
CFM	Outlet Velocity	2″ S.P.		2 ¼″ S.P.		2 ½″ S.P.		3″ S.P.		3 ½″ S.P.		4″ S.P.		4 ½″ S.P.		5″ S.P.		5 ½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
77,224	1400	316	31.0	329	34.8	341	38.7	367	47.1	391	55.8	417	65.2	443	75.4	463	85.2	484	95.8	506	106.8
82,740	1500	324	33.5	336	37.4	348	41.2	372	49.9	395	58.9	420	68.7	444	78.6	464	88.8	487	99.8	507	110.8
88,256	1600	331	36.3	344	40.5	357	44.4	379	53.0	401	62.1	422	71.9	445	82.1	466	92.7	489	103.7	509	115.5
93,772	1700	340	39.3	352	43.6	364	47.5	386	56.6	407	65.6	427	75.4	447	86.0	469	96.6	491	107.6	511	119.4
99,288	1800	349	42.8	361	46.7	371	51.1	393	60.1	415	69.5	434	79.3	455	90.0	472	100.9	493	112.3	513	124.1
104,804	1900	358	46.4	369	50.7	380	55.0	401	64.0	421	73.8	441	84.1	460	94.3	477	105.7	496	117.1	516	128.8
110,320	2000	367	49.9	378	54.6	389	59.3	410	68.7	429	78.6	449	88.8	467	99.4	484	110.4	502	122.2	519	134.3
115,836	2100	375	54.2	387	58.9	398	63.6	419	73.5	438	83.3	456	93.5	473	104.5	491	115.9	509	127.7	524	139.8
121,352	2200	385	58.5	396	63.2	407	68.0	427	78.2	445	88.4	464	99.0	482	110.4	499	121.8	515	133.6	532	145.7
126,868	2300	394	62.8	405	68.0	415	73.1	436	83.3	455	93.9	472	104.9	490	116.3	506	127.7	522	140.2	538	152.4
132,384	2400	404	67.6	414	73.1	424	78.6	445	89.2	463	100.2	481	111.2	497	122.6	514	134.3	530	146.5	546	159.1
137,900	2500	414	72.7	424	78.6	434	84.1	453	94.7	472	106.4	488	117.8	506	129.6	522	141.0	538	154.0	552	166.5
143,416	2600	424	78.2	434	84.1	443	89.6	462	101.3	481	112.7	498	124.9	515	136.7	530	148.9	545	161.4	560	174.4
148,932	2700	434	83.7	443	90.0	453	95.8	472	108.0	490	119.4	507	131.6	524	144.2	538	156.7	554	169.7	568	182.7
154,448	2800	444	89.6	453	95.8	463	102.1	481	114.7	499	126.9	516	139.4	533	152.0	547	165.0	562	178.3	576	191.3
159,964	2900	453	95.8	464	102.5	473	108.8	491	121.8	508	134.7	526	147.3	541	160.7	556	173.6	571	187.0	585	200.3
165,480	3000	464	102.5	474	109.2	483	115.9	501	129.2	518	142.6	534	155.5	550	168.9	566	182.7	580	196.4	594	210.1
170,996	3100	475	109.6	484	116.3	493	122.9	510	136.7	527	150.4	543	164.0	559	178.3	574	191.7	589	205.8	602	220.4
176,512	3200	486	116.7	495	123.7	503	130.8	520	144.9	537	158.7	552	173.6	568	187.4	583	201.5	598	216.0	612	230.6
182,028	3300	496	124.9	506	131.6	514	138.7	530	153.2	547	167.7	563	182.7	577	197.6	592	211.7	608	226.3	621	241.2
187,544	3400	508	132.8	516	139.8	524	147.3	540	162.6	557	177.2	572	191.7	587	207.4	600	222.7	616	237.3	630	252.6
193,060	3500	519	140.6	527	148.5	535	151.9	551	171.3	567	186.6	581	202.3	597	217.6	611	233.7	624	248.6		
198,576	3600	530	149.3	537	157.1	545	165.4	561	181.1	578	196.8	591	212.9	607	228.2	620	245.1	634	260.8		
209,608	3800	552	167.7	560	176.0	567	185.4	582	201.5	597	218.1	612	234.5	625	251.8	639	268.3	652	285.6		
220,640	4000	575	188.9	582	197.2	589	205.8	603	223.1	618	241.2	632	258.9	645	275.7	659	294.2	672	311.9		

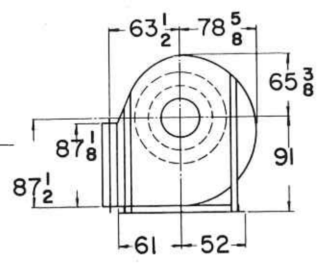
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

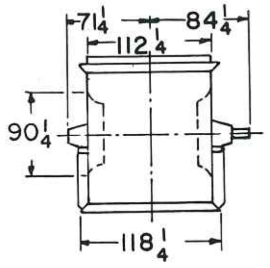
SIZE 1615 Buffalo Double Inlet Limit-Load Type "BL" Fans SIZE 1615

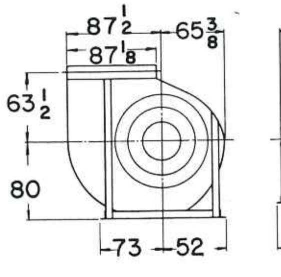
Wheel Diameter 80¾″. **Limit Load H.P.** $= 1712.4 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ **Outlet Area 67.49 sq. ft. inside.**

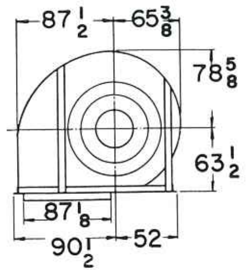
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
53,992	800	125	3.32	138	4.42	150	5.58	161	6.78	171	8.12	182	9.53	191	11.0	211	14.2	231	17.6	248	21.2
60,741	900	134	4.09	146	5.29	157	6.54	168	7.84	178	9.23	187	10.6	196	12.2	214	15.4	232	18.9	250	22.8
67,490	1000	143	4.95	155	6.30	166	7.65	176	9.04	185	10.5	194	12.0	203	13.6	219	16.9	235	20.5	251	24.4
74,239	1100	152	5.96	163	7.45	174	8.99	184	10.4	193	12.0	201	13.6	210	15.1	226	18.6	241	22.3	255	26.2
80,988	1200	162	7.11	173	8.75	183	10.3	192	12.0	201	13.6	209	15.3	217	17.0	232	20.6	247	24.4	260	28.4
87,737	1300	172	8.46	182	10.2	191	12.0	200	13.9	209	15.5	217	17.3	225	19.0	240	22.8	254	26.6	267	30.8
94,486	1400	182	10.0	195	11.9	200	13.8	209	15.6	217	17.5	226	19.4	233	21.3	247	25.2	261	29.3	274	33.5
101,235	1500	193	11.8	202	13.6	210	15.7	218	17.7	226	19.8	234	21.8	241	23.9	256	28.0	268	32.2	281	36.5
107,984	1600	203	13.7	212	15.7	220	17.8	227	20.0	235	22.2	242	24.3	250	26.5	263	30.9	277	35.3	289	39.8
114,733	1700	214	15.9	222	17.9	230	20.2	237	22.5	244	24.8	252	27.1	258	29.4	272	34.1	284	38.6	296	43.4
121,482	1800	224	18.4	232	20.5	240	22.8	247	25.3	253	27.8	260	30.1	267	32.6	280	37.4	293	42.1	304	47.3
128,231	1900	235	21.1	242	23.3	250	25.7	256	28.2	263	30.8	270	33.4	276	36.0	289	41.0	301	46.2	312	51.4
134,980	2000	246	24.0	253	26.5	260	28.9	267	31.5	273	34.2	279	37.0	285	39.6	298	45.0	310	50.5	320	56.2
141,729	2100	257	26.9	263	30.0	270	32.4	277	35.0	283	37.9	289	40.7	295	43.6	307	49.0	318	54.9	329	60.6
148,478	2200	268	30.4	274	33.6	281	36.1	287	38.9	293	41.7	299	44.8	305	47.4	316	53.0	327	59.7	338	65.4
155,227	2300	279	34.6	285	37.5	291	40.4	297	43.1	303	45.9	309	49.1	314	52.4	325	58.2	336	64.5	346	70.7
161,976	2400	291	38.5	296	41.4	302	44.9	307	47.7	314	50.6	319	53.4	324	57.2	335	63.5	345	69.8	356	76.4
168,725	2500	301	43.4	307	46.0	312	49.6	318	52.5	324	55.8	329	58.6	334	62.0	344	68.7	354	76.0	364	82.2
175,474	2600	312	48.5	318	51.0	323	54.4	328	57.8	334	61.0	339	64.5	345	67.8	354	75.0	364	81.7	373	88.9
182,223	2700	323	53.8	329	56.2	334	60.1	339	64.0	344	66.9	350	70.2	355	73.6	364	80.8	373	88.0	383	95.6
188,972	2800	334	60.1	341	62.5	345	65.4	350	69.3	355	73.1	360	76.4	365	79.8	374	87.0	383	94.8	393	102.4
195,721	2900	345	65.4	351	68.8	356	71.6	360	76.0	365	80.3	370	83.2	375	86.6	384	94.2	393	101.9	402	109.6
202,470	3000	356	72.6	362	75.0	367	77.9	372	82.2	376	86.6	381	90.4	385	94.2	394	101.0	403	109.6	412	117.3
209,219	3100	367	79.8	373	81.7	378	85.6	383	88.5	387	93.8	391	97.6	396	101.4	404	109.2	413	117.3	421	125.9
215,968	3200	379	87.5	384	89.9	388	94.2	393	96.2	398	101.4	402	105.7	406	109.6	415	117.3	423	125.4	431	133.6











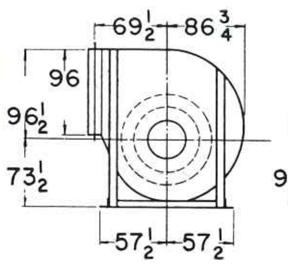
CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
94,486	1400	285	37.9	298	42.6	308	47.3	331	57.7	354	68.3	377	79.8	401	92.4	418	104.3	438	117.3	457	130.7
101,235	1500	293	40.9	304	45.7	315	50.5	336	61.1	357	72.2	379	84.1	402	96.2	420	108.7	440	122.1	458	135.5
107,984	1600	299	44.5	311	49.5	322	54.3	342	65.0	363	76.0	381	88.0	403	100.5	421	113.5	442	127.0	460	141.3
114,733	1700	307	48.1	319	53.4	329	58.2	349	69.3	367	80.4	386	92.4	404	105.3	424	118.3	444	131.8	462	146.1
121,482	1800	315	52.4	326	57.3	336	62.6	355	73.6	375	85.1	392	97 2	411	110.1	427	123.5	446	137.5	463	151.9
128,231	1900	323	56.7	334	62.1	344	66.4	362	78.4	381	90.4	399	102.9	416	115.4	431	129.3	449	143.2	466	157.6
134,980	2000	331	61.0	342	66.9	352	72.6	370	84.2	388	96.2	406	108.6	422	121.7	435	135.1	454	149.5	469	164.4
141,729	2100	339	66.3	350	72.2	360	77.9	378	89.9	396	101.9	412	114.4	428	127.9	443	141.9	460	156.2	474	171.1
148,478	2200	348	71.6	358	77.4	367	83.2	386	95.7	403	108.1	420	121.1	436	135.2	451	149.0	466	163.4	481	178.3
155,227	2300	357	76.9	366	83.2	375	89.4	394	102.0	411	114.9	427	128.4	443	142.3	457	156.2	472	171.6	487	186.5
161,976	2400	365	82.7	374	89.5	383	96.2	402	109.2	418	122.6	435	136.1	449	150.0	464	164.4	479	179.3	494	194.7
168,725	2500	374	88.9	383	96.2	392	102.9	410	115.9	427	130.3	441	144.3	457	158.6	472	172.6	486	188.5	499	204.3
175,474	2600	383	95.6	392	102.9	401	109.6	418	124.0	435	138.0	450	152.9	465	167.3	479	182.2	493	197.6	506	213.4
182,223	2700	392	102.4	401	110.1	409	117.4	426	132.2	443	146.2	458	161.1	473	176.5	487	191.8	501	207.7	514	223.5
188,972	2800	401	109.6	410	117.3	419	125.0	435	140.4	451	155.3	467	170.6	482	186.1	495	201.9	508	218.3	521	234.1
195,721	2900	410	117.3	419	125.5	427	133.2	444	149.0	459	164.9	475	180.3	489	196.7	503	212.5	516	228.8	529	245.1
202,470	3000	420	125.4	428	133.6	436	141.8	453	158.1	468	174.5	483	190.4	497	206.5	511	223.6	525	240.3	537	257.1
209,219	3100	430	134.1	437	142.3	443	150.5	461	167.3	477	184.1	491	201.5	505	218.2	519	234.6	532	251.9	545	269.6
215,968	3200	439	142.7	447	151.4	455	160.1	470	177.4	485	194.2	499	212.5	513	229.3	527	246.6	540	264.4	553	282.1
222,717	3300	449	152.8	457	161.0	464	169.7	479	187.5	494	205.3	509	223.6	521	241.8	535	259.1	549	276.9	561	295.1
229,466	3400	459	162.4	466	171.1	474	180.3	488	199.1	503	216.8	517	234.6	530	253.8	543	272.5	557	290.0	569	309 0
236,215	3500	469	172.1	476	181.7	483	190.8	498	209.6	512	228.4	525	247.5	539	266.4	552	286.0	564	304.3		
242,964	3600	479	182.6	486	192.3	493	202.4	507	221.6	523	240.9	534	260.5	548	279.3	561	299.9	573	319.2		
256,462	3800	499	205.2	506	215.4	512	226.9	526	246.6	540	266.8	553	287.0	565	308.1	577	328.3	590	349.4		
269,960	4000	520	231.2	526	241.3	533	251.9	546	273.0	559	295.2	571	316.8	583	337.5	595	360.1	608	381.6		

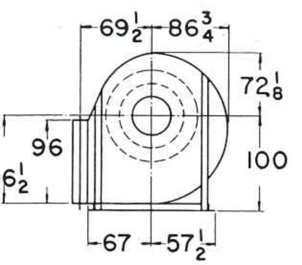
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

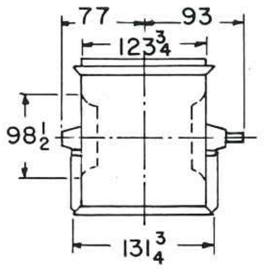
SIZE 1780 Buffalo Double Inlet Limit-Load Type "BL" Fans SIZE 1780

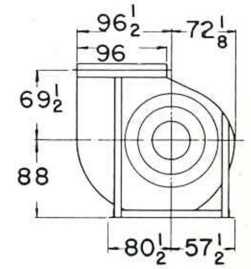
Wheel Diameter 89″. **Limit Load H.P.** $= 2785.1 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ **Outlet Area 81.99 sq. ft. inside.**

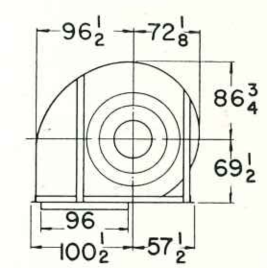
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
65,592	800	113	4.03	126	5.37	136	6.77	146	8.23	155	9.87	165	11.6	173	13.4	191	17.2	209	21.4	225	25.7
73,791	900	121	4.96	133	6.42	143	7.94	152	9.52	161	11.2	170	12.9	178	14.8	194	18.7	210	23.0	227	27.7
81,990	1000	130	6.01	140	7.65	151	9.28	159	11.0	168	12.7	176	14.5	184	16.5	198	20.5	213	24.9	228	29.6
90,189	1100	138	7.24	148	9.05	158	10 9	167	12.7	175	14.5	183	16.5	191	18.4	205	22.6	218	27.1	231	31.9
98,388	1200	147	8.64	157	10.6	166	12.6	174	14.6	182	16.5	190	18.6	197	20.7	211	25.0	224	29.6	236	34.4
106,587	1300	156	10.3	165	12.4	174	14.5	182	16.9	190	18.9	197	21.0	204	23.1	217	27.7	230	32.3	242	37.4
114,786	1400	165	12.1	177	14.4	182	16.7	190	19.0	197	21.3	205	23.6	212	25.9	224	30.7	237	35.6	249	40.6
122,985	1500	175	14.3	183	16.6	191	19.0	198	21.5	205	24.0	212	26.5	219	29.0	232	34.0	244	39.1	255	44.3
131,184	1600	184	16.7	192	19.0	200	21.6	206	24.3	213	26.9	220	29.5	227	32.2	239	37.5	251	42.9	262	48.3
139,383	1700	194	19.3	201	21.8	208	24.5	215	27.4	222	30.1	228	32.9	234	35.7	246	41.4	258	46.9	269	52.7
147,582	1800	203	22.3	210	24.9	217	27.7	224	30.7	230	33.7	236	36.6	242	39.6	254	45.5	266	51.1	276	57.5
155,781	1900	213	25.6	220	28.3	227	31.2	232	34.3	240	37.4	245	40.5	251	43.7	262	49.8	273	56.1	283	62.5
163,980	2000	223	29.1	229	32.2	236	35.1	242	38.2	247	41.6	253	44.9	259	48.1	270	54.7	281	61.3	290	68.3
172,179	2100	233	32.7	239	36.5	245	39.3	251	42.6	256	46.0	262	49.4	268	52.9	278	59.6	289	66.6	299	73.6
180,378	2200	243	37.0	249	40.8	255	43.8	261	47.2	266	50.6	271	54.4	277	57.6	287	64.8	297	72.4	307	79.4
188,577	2300	253	42.0	258	45.6	264	49.1	270	52.4	275	55.8	280	59.6	285	63.6	295	70.6	305	78.2	314	85.8
196,776	2400	264	46.8	268	50.3	274	54.6	279	58.0	285	61.3	290	64.8	294	69.5	304	77.1	313	84.7	323	92.8
204,975	2500	273	52.7	278	55.9	283	60.1	288	63.6	294	67.7	298	71.2	303	75.3	312	83.5	321	92.2	330	99.8
213,174	2600	283	59.0	288	61.9	293	66.0	298	70.1	303	74.2	308	78.2	313	82.3	321	91.1	330	99.3	339	108.0
221,373	2700	293	65.4	298	68.3	303	73.0	307	77.7	312	81.2	317	85.2	322	89.3	331	98.1	339	106.9	347	116.2
229,572	2800	303	73.0	309	75.9	313	79.4	317	84.1	322	88.7	326	92.8	331	96.9	340	105.7	348	115.0	356	124.4
237,771	2900	313	79.4	318	83.5	323	87.0	327	92.3	331	97.5	336	101.0	340	105.1	349	114.4	357	123.8	364	133.1
245,970	3000	323	88.2	328	91.1	333	94.6	337	99.8	340	105.1	345	109.8	350	114.4	358	122.6	366	133.1	374	142.5
254,169	3100	333	96.9	338	99.3	343	103.9	347	107.4	351	113.9	355	118.5	359	123.2	367	132.5	375	142.5	382	153.0
262,368	3200	344	106.3	348	109.2	352	114.4	357	116.8	361	123.2	364	128.5	369	133.1	377	142.5	384	152.4	391	162.3











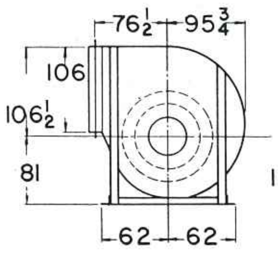
CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
114,786	1400	259	46.1	270	51.7	280	57.5	301	70.1	321	82.9	342	96.9	364	112.1	379	126.7	397	142.5	415	158.8
122,985	1500	266	49.7	275	55.5	286	61.3	305	74.2	324	87.6	344	102.2	365	116.8	381	132.0	399	148.3	416	164.7
131,184	1600	272	54.0	282	60.1	292	66.0	311	78.8	329	92.3	346	106.9	366	122.0	382	137.8	401	154.1	417	171.7
139,383	1700	279	58.4	289	64.8	298	70.6	316	84.1	333	97.5	350	112.1	367	127.9	384	143.6	403	160.0	419	177.5
147,582	1800	286	63.6	296	69.5	304	75.9	322	89.3	340	103.3	356	117.9	373	133.7	387	150.1	405	167.0	420	184.5
155,781	1900	293	68.9	303	75.3	312	81.7	329	95.2	345	109.8	362	125.0	377	140.1	391	157.1	407	174.0	423	191.5
163,980	2000	301	74.2	310	81.2	319	88.2	336	102.2	352	116.8	368	132.0	383	147.7	397	164.1	412	181.6	426	199.7
172,179	2100	308	80.6	317	87.6	326	94.6	343	109.2	359	123.8	374	139.0	388	155.3	403	172.2	417	189.8	430	207.9
180,378	2200	316	87.0	325	94.0	333	101.0	350	116.2	365	131.4	381	147.1	396	164.1	409	181.0	422	198.5	436	216.6
188,577	2300	323	93.4	332	101.0	340	108.6	357	123.8	373	139.5	387	155.9	402	172.8	415	189.8	428	208.4	442	226.5
196,776	2400	331	100.4	340	108.6	348	116.8	365	132.5	379	148.9	394	165.2	408	182.2	421	199.7	435	217.8	448	236.5
204,975	2500	339	108.0	348	116.8	356	125.0	372	140.7	387	158.2	401	175.2	415	192.7	428	209.6	441	228.9	453	248.1
213,174	2600	348	116.2	356	125.0	364	133.1	379	150.6	395	167.6	408	185.7	422	203.2	434	221.3	447	240.0	459	259.2
221,373	2700	356	124.4	364	133.7	372	142.5	387	160.6	402	177.5	416	195.6	430	214.3	442	233.0	454	252.2	466	271.5
229,572	2800	364	133.1	372	142.5	380	151.8	395	170.5	409	188.6	423	207.3	437	226.0	449	245.2	461	265.1	473	284.3
237,771	2900	372	142.5	380	152.4	388	161.7	403	181.0	417	200.2	431	219.0	444	238.8	456	258.1	468	277.9	480	297.8
245,970	3000	381	152.4	389	162.3	396	172.2	411	192.1	425	211.9	438	231.2	451	251.1	464	271.5	476	291.9	487	312.4
254,169	3100	390	162.9	397	172.8	404	182.8	418	203.2	432	223.6	445	244.6	458	265.1	471	284.9	483	306.0	497	324.6
262,368	3200	398	173.4	406	183.9	413	194.4	427	215.5	440	235.9	453	258.1	466	278.5	478	299.5	490	321.1	502	342.7
270,567	3300	407	185.7	414	195.6	421	206.1	435	227.7	449	249.3	461	271.5	473	293.7	485	314.7	498	336.3	509	358.5
278,766	3400	416	197.4	423	207.9	430	219.0	443	241.7	456	263.3	469	284.9	481	308.3	492	331.1	505	352.7	517	375.4
286,965	3500	425	209.0	432	220.7	439	231.8	452	254.6	465	277.3	477	300.7	489	323.5	501	347.4	512	369.6		
295,164	3600	434	221.9	441	233.6	447	245.8	460	269.2	474	292.5	485	316.5	497	339.2	509	364.3	520	387.7		
311,562	3800	453	249.3	459	261.6	465	275.6	478	299.5	490	324.1	502	348.6	513	374.3	524	398.8	535	424.5		
327,960	4000	472	280.8	476	293.1	483	306.0	495	331.6	507	358.5	518	384.8	521	409.9	540	437.3	551	463.6		

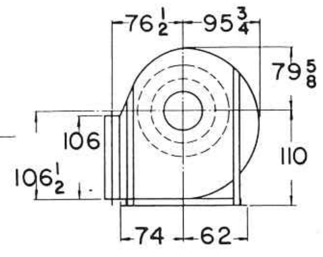
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

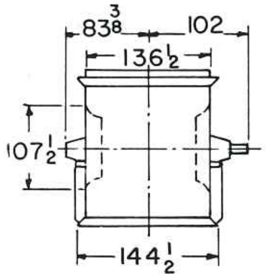
SIZE 1965 Buffalo Double Inlet Limit-Load Type "BL" Fans SIZE 1965

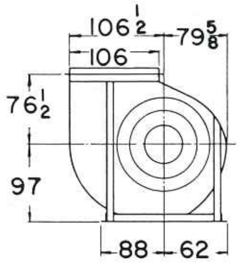
Wheel Diameter 98¼″. Limit Load H.P. $= 4566.1 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 99.92 sq. ft. inside.

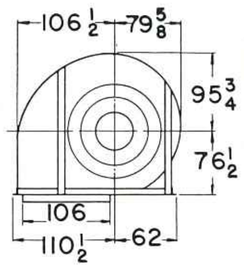
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
79,936	800	102	4.91	114	6.55	123	8.25	132	10.0	141	12.0	149	14.1	157	16.3	173	21.0	189	26.0	204	31.4
89,928	900	110	6.05	120	7.83	129	9.68	138	11.6	146	13.7	154	15.7	161	18.0	176	22.8	190	28.0	205	33.7
99,920	1000	117	7.33	127	9.32	137	11.3	144	13.4	152	15.5	160	17.7	167	20.1	180	25.0	193	30.4	206	36.1
109,912	1100	125	8.82	134	11.0	143	13.3	151	15.4	158	17.7	165	20.1	173	22.4	185	27.5	198	33.0	209	38.9
119,904	1200	133	10.5	142	13.0	150	15.3	158	17.8	165	20.1	172	22.7	179	25.2	191	30.5	203	36.1	214	42.0
129,896	1300	141	12.5	149	15.2	157	17.7	165	20.6	171	23.0	179	25.5	185	28.2	197	33.7	209	39.2	219	45.5
139,888	1400	150	14.8	160	17.6	165	20.4	172	23.1	179	26.0	185	28.7	192	31.6	203	37.4	214	43.3	225	49.5
149,880	1500	158	17.4	166	20.2	173	23.2	179	26.2	186	29.2	192	32.3	198	35.4	210	41.4	221	47.6	231	54.0
159,872	1600	167	20.4	174	23.2	181	26.3	187	29.6	193	32.8	200	35.9	205	39.3	216	45.7	227	52.2	237	58.9
169,864	1700	176	23.6	182	26.5	189	29.9	195	33.4	201	36.7	207	40.1	212	43.5	223	50.4	234	57.2	244	64.3
179,856	1800	184	27.2	191	30.3	197	33.8	203	37.4	208	41.1	214	44.6	219	48.2	230	55.4	241	62.3	250	70.0
189,848	1900	193	31.2	199	34.5	205	38.0	210	41.8	216	45.6	222	49.4	227	53.2	238	60.7	247	68.4	257	76.1
199,840	2000	202	35.5	208	39.3	214	42.8	219	46.6	224	50.7	230	57.7	235	58.6	245	66.6	254	74.7	263	83.3
209,832	2100	211	39.8	216	44.5	222	47.9	227	51.9	232	56.1	238	60.2	242	64.5	252	72.6	262	81.1	271	89.7
219,824	2200	220	45.0	225	49.7	231	53.4	236	57.6	241	61.7	245	66.3	251	70.2	260	79.0	269	88.2	278	96.8
229,816	2300	229	51.2	234	55.6	239	59.8	244	63.8	249	68.0	254	72.6	258	77.6	267	86.1	276	95.3	285	104.6
239,808	2400	239	57.1	243	61.3	248	66.5	252	70.7	258	74.7	262	79.0	266	84.7	275	93.9	284	103.2	292	113.1
249,800	2500	247	64.2	252	68.1	257	73.3	261	77.6	266	82.6	270	86.8	275	91.8	283	101.8	291	112.4	299	121.7
259,792	2600	256	71.9	261	65.4	266	80.4	270	85.4	274	90.4	279	95.3	283	100.3	291	111.0	299	121.0	307	131.6
269,784	2700	265	79.7	270	83.3	274	88.9	278	94.6	283	98.9	287	103.9	292	108.9	299	119.5	307	130.2	314	141.6
279,776	2800	275	88.9	280	92.5	283	96.8	287	102.5	292	108.2	296	113.1	300	118.1	308	128.8	315	140.2	323	151.6
289,768	2900	284	96.8	288	101.8	292	106.0	296	112.4	300	118.8	304	123.1	308	128.1	316	139.5	323	150.8	330	162.2
299,760	3000	293	107.4	297	111.0	301	115.3	305	121.7	309	128.1	313	133.8	317	139.5	324	149.4	331	162.2	338	173.6
309,752	3100	302	118.1	307	121.0	310	126.7	314	130.9	318	138.8	321	144.4	325	150.1	332	161.5	340	173.6	346	186.4
319,744	3200	311	121.5	316	133.1	319	139.5	323	142.3	327	150.1	330	156.5	334	162.2	341	173.6	348	185.7	355	197.8











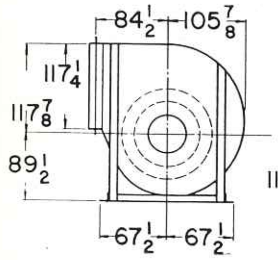
CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
139,888	1400	235	56.1	245	63.0	253	70.0	272	85.4	291	101.0	310	118.1	329	136.6	344	154.4	360	173.6	376	193.5
149,880	1500	241	60.6	250	67.7	259	74.7	277	90.4	294	106.7	312	124.5	330	142.3	345	160.8	362	180.7	377	200.7
159,872	1600	246	65.8	256	73.3	265	80.4	281	96.1	298	112.4	313	130.2	331	148.7	346	167.9	363	187.8	378	209.2
169,864	1700	253	71.2	262	79.0	270	86.1	287	102.5	302	118.8	317	136.6	332	155.8	348	175.0	365	195.0	379	216.3
179,856	1800	259	75.6	268	84.7	276	92.5	292	108.9	308	125.9	322	143.7	338	162.9	351	182.9	367	203.5	381	224.8
189,848	1900	266	84.0	274	91.8	283	99.6	298	116.0	313	133.8	328	152.3	342	170.8	354	191.4	369	212.0	383	233.4
199,840	2000	272	90.4	281	98.9	289	107.4	304	124.5	319	142.3	334	160.8	347	180.0	360	200.0	373	221.3	386	243.3
209,832	2100	279	98.2	287	106.7	296	115.3	311	133.1	325	150.8	338	169.3	352	189.3	365	209.9	378	231.3	389	253.3
219,824	2200	286	106.0	294	114.6	302	123.1	317	141.6	331	160.1	345	179.3	358	200.0	371	220.6	383	241.9	395	264.0
229,816	2300	293	113.8	301	123.1	308	132.3	324	150.8	338	170.1	351	190.0	364	210.6	376	231.3	388	254.7	400	276.1
239,808	2400	300	122.4	308	132.3	315	142.3	331	161.5	344	181.4	357	201.4	369	222.0	382	243.3	394	265.4	406	288.2
249,800	2500	307	131.6	315	142.3	322	152.3	337	171.5	351	192.8	363	213.5	376	234.8	388	255.4	400	278.9	410	302.4
259,792	2600	315	141.6	322	152.3	329	162.2	343	183.6	358	204.2	370	226.3	382	247.6	394	269.7	405	292.4	416	315.9
269,784	2700	322	151.6	329	162.9	337	173.6	350	195.7	364	216.3	377	238.4	389	261.1	400	283.9	412	307.4	422	330.9
279,776	2800	330	162.2	337	173.6	344	185.0	358	207.8	371	229.8	383	252.6	396	275.4	407	298.8	418	323.0	428	346.5
289,768	2900	337	173.6	344	185.7	351	197.1	365	220.6	377	244.1	391	266.8	402	291.0	413	314.5	424	338.7	434	362.9
299,760	3000	345	185.7	352	197.8	359	209.9	372	234.1	385	258.3	397	281.8	409	306.0	420	330.9	431	355.8	441	380.7
309,752	3100	353	198.5	359	210.6	366	222.7	379	247.6	392	272.5	403	298.1	415	323.0	427	347.2	437	372.8	448	399.2
319,744	3200	361	211.3	368	224.1	374	236.9	386	262.6	399	287.5	410	314.5	422	339.4	433	365.0	444	391.3	454	417.7
329,736	3300	369	226.3	375	238.4	382	251.2	394	277.5	406	303.8	418	330.9	428	357.9	440	383.5	451	409.8	461	436.9
339,728	3400	377	240.5	383	253.3	389	266.8	401	294.6	413	320.9	425	347.2	436	375.7	446	403.4	458	429.8	468	457.5
349,720	3500	385	254.7	391	269.0	397	282.5	409	310.2	421	338.0	432	366.4	443	394.2	454	423.4	463	450.4		
359,712	3600	394	270.4	399	284.6	405	299.6	416	328.0	430	356.5	439	385.7	451	413.4	461	444.0	471	472.5		
379,696	3800	410	303.8	416	318.8	421	335.8	433	365.0	443	394.9	454	424.8	464	456.1	475	486.0	485	517.3		
399,680	4000	427	342.3	433	357.2	438	372.8	448	404.2	459	436.9	469	468.9	480	499.5	489	532.9	499	563.5		

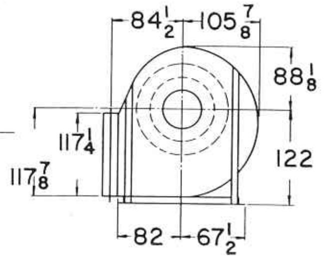
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

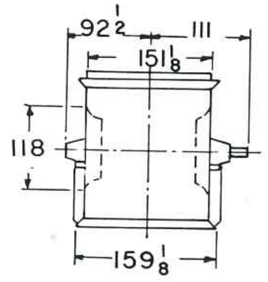
SIZE 2175 Buffalo Double Inlet Limit-Load Type "BL" Fans SIZE 2175

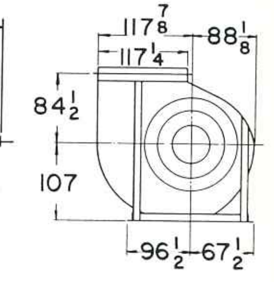
Wheel Diameter 108¾″. Limit Load H.P. $= 7576.7 \times \left(\frac{\text{R.P.M.}}{1000}\right)^3$ Outlet Area 122.42 sq. ft. inside.

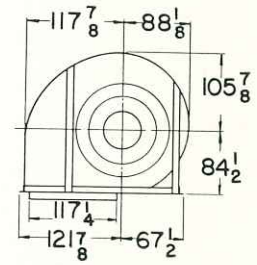
CFM	Outlet Velocity	¼″ S.P.		⅜″ S.P.		½″ S.P.		⅝″ S.P.		¾″ S.P.		⅞″ S.P.		1″ S.P.		1¼″ S.P.		1½″ S.P.		1¾″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
97,939	800	93	6.02	103	8.02	111	10.1	120	12.3	127	14.7	135	17.3	142	19.9	157	25.7	171	31.9	184	38.4
110,178	900	99	7.41	108	9.59	117	11.9	125	14.2	132	16.7	139	19.3	145	22.1	159	28.0	172	34.3	185	41.3
122,420	1000	106	8.98	115	11.4	123	13.9	131	16.4	137	19.0	144	21.7	151	24.6	162	30.6	174	37.2	186	44.2
134,662	1100	113	10.8	121	13.5	129	16.3	137	18.9	143	21.7	149	24.6	156	27.5	167	33.7	179	40.4	189	47.6
146,904	1200	120	12.9	128	15.9	136	18.7	142	21.8	149	24.7	155	27.8	161	30.9	173	37.3	183	44.2	193	51.4
159,146	1300	128	15.3	135	18.6	142	21.7	149	25.2	155	28.2	161	31.3	167	34.5	178	41.3	188	48.3	198	55.8
171,388	1400	135	18.1	145	21.5	149	24.9	155	28.3	161	31.8	167	35.2	173	38.7	184	45.8	194	53.1	203	60.7
183,630	1500	143	21.4	150	24.8	156	28.4	162	32.1	168	35.8	174	39.6	179	43.3	190	50.7	199	58.3	208	66.2
195,872	1600	151	24.9	157	28.4	164	32.3	169	36.3	175	40.2	180	44.0	185	48.1	196	56.0	205	64.0	214	72.2
208,114	1700	159	28.9	165	32.5	171	36.6	176	40.9	181	45.0	187	49.2	192	53.3	202	61.8	211	70.1	220	78.7
220,356	1800	166	33.3	172	37.1	178	41.4	183	45.9	188	50.4	193	54.7	198	59.1	208	67.9	217	76.4	226	85.8
232,598	1900	175	38.2	180	42.3	185	46.6	190	51.2	196	55.9	200	60.5	205	65.2	215	74.4	223	83.8	232	93.3
244,840	2000	182	43.5	188	48.1	193	52.4	198	57.1	202	62.1	207	67.0	212	71.7	221	81.6	230	91.5	238	102.0
257,082	2100	191	48.8	196	54.5	201	58.7	205	63.6	210	68.7	215	73.8	219	79.0	228	88.9	236	99.4	244	109.8
269,324	2200	199	55.2	204	60.8	208	65.5	213	70.5	218	75.6	222	81.2	226	86.0	235	96.8	243	108.1	251	118.6
281,566	2300	207	62.8	212	68.1	216	73.3	221	78.2	225	83.3	229	88.9	233	95.0	241	105.5	250	116.8	257	128.1
293,808	2400	216	69.9	220	75.1	224	81.5	228	86.6	233	91.5	237	96.8	240	103.7	248	115.1	256	126.4	264	138.6
306,050	2500	223	78.6	228	83.4	232	89.8	236	95.0	240	101.1	244	106.4	248	112.5	256	124.7	263	137.7	270	149.1
318,292	2600	232	88.0	236	92.4	240	98.5	244	104.6	248	110.7	252	116.8	256	122.9	263	136.0	270	148.2	277	161.3
330,534	2700	240	97.6	244	102.0	248	109.0	252	115.9	256	121.2	260	127.3	263	133.4	271	146.5	277	159.5	284	173.5
342,776	2800	248	109.0	253	113.3	256	118.6	260	125.5	263	132.5	267	138.6	271	144.7	278	157.8	284	171.7	292	185.7
355,018	2900	256	118.6	260	124.7	264	129.9	267	137.7	271	145.6	275	150.8	278	156.9	285	170.9	292	184.8	298	198.8
367,260	3000	265	131.6	268	136.0	272	141.2	276	149.1	279	156.9	283	163.9	286	170.9	293	183.1	299	198.8	306	212.7
379,502	3100	273	144.7	277	148.2	280	155.2	284	160.4	287	170.0	290	177.0	294	183.9	300	197.9	307	212.7	313	228.4
391,744	3200	281	158.7	285	163.0	288	170.9	292	174.4	295	183.9	298	191.8	302	198.8	308	212.7	314	227.5	320	242.3











CFM	Outlet Velocity	2″ S.P.		2¼″ S.P.		2½″ S.P.		3″ S.P.		3½″ S.P.		4″ S.P.		4½″ S.P.		5″ S.P.		5½″ S.P.		6″ S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
171,388	1400	212	68.8	221	77.2	229	85.8	246	104.6	263	123.8	280	144.7	298	167.4	311	189.2	325	212.7	339	237.1
183,630	1500	218	74.3	225	82.9	234	91.5	250	110.7	265	130.8	282	152.6	299	174.4	312	197.0	327	221.4	340	245.8
195,872	1600	222	80.6	231	89.8	239	98.5	254	117.7	270	137.7	283	159.5	300	182.2	313	205.7	328	230.1	341	256.3
208,114	1700	228	87.2	237	96.8	244	105.5	259	125.5	273	145.6	287	167.4	302	190.9	315	214.5	330	238.9	343	265.0
220,356	1800	234	95.0	242	103.7	249	113.3	264	133.4	278	154.3	291	176.1	305	199.6	317	224.0	331	249.3	344	275.5
232,598	1900	240	102.9	248	112.5	255	122.0	269	142.1	283	163.9	296	186.6	309	209.2	320	234.5	333	259.8	346	285.9
244,840	2000	246	110.7	254	121.2	261	131.6	275	152.6	288	174.4	301	197.0	313	220.6	325	245.0	337	271.1	348	298.1
257,082	2100	252	120.3	260	130.8	267	141.2	281	163.0	294	184.8	306	207.5	318	231.9	330	257.2	341	283.3	352	310.3
269,324	2200	258	129.9	266	140.4	273	150.8	286	173.5	299	196.1	312	219.7	324	245.0	335	270.2	346	296.4	357	323.4
281,566	2300	265	139.5	272	150.8	279	162.1	293	184.8	305	208.4	317	232.8	329	255.0	340	283.3	350	311.2	361	338.2
293,808	2400	271	149.9	278	162.1	285	174.4	299	197.9	311	222.3	323	246.7	334	272.0	345	298.1	356	325.2	367	353.1
306,050	2500	278	161.3	285	174.4	291	186.6	304	210.1	317	236.2	328	261.5	339	287.7	351	313.0	361	341.7	371	370.5
318,292	2600	284	173.5	291	186.6	298	198.8	310	224.9	323	250.2	334	277.2	345	303.4	356	330.4	366	358.3	376	387.1
330,534	2700	291	185.7	298	199.6	304	212.7	317	239.7	329	265.0	340	292.0	352	319.9	361	347.8	372	376.6	381	405.4
342,776	2800	298	198.8	304	212.7	311	226.7	323	254.6	335	281.6	346	309.5	360	337.4	367	366.1	377	395.8	387	424.5
355,018	2900	304	212.7	311	227.5	317	241.5	330	270.2	341	299.0	353	326.9	363	356.5	373	385.3	383	415.0	393	444.6
367,260	3000	312	227.5	318	242.3	324	257.2	336	286.8	347	316.4	358	345.2	369	374.9	380	405.4	390	435.9	395	466.4
379,502	3100	319	243.2	325	258.0	331	272.9	342	303.4	354	333.9	364	365.3	375	395.8	385	425.4	395	456.8	404	489.1
391,744	3200	326	258.9	332	274.6	338	290.3	349	321.7	360	352.2	371	385.3	381	415.8	391	447.2	401	479.5	411	511.7
403,986	3300	333	277.2	339	292.0	345	307.7	356	340.0	367	372.2	378	405.4	387	438.5	397	469.9	408	502.1	417	535.3
416,228	3400	341	294.7	346	310.3	352	326.9	363	360.9	374	392.2	384	425.4	394	460.3	403	494.3	414	526.5	423	560.5
428,470	3500	348	312.1	354	329.5	359	346.1	370	380.1	380	414.1	390	449.0	400	483.0	410	518.7	419	551.8		
440,712	3600	356	331.3	361	348.7	366	367.0	376	401.9	388	436.8	397	472.5	407	506.5	416	544.0	425	578.8		
465,196	3800	371	372.2	376	390.5	380	411.5	391	447.2	401	483.8	411	520.4	420	558.8	429	595.4	438	633.8		
489,680	4000	386	419.3	391	437.6	396	456.8	405	495.2	415	535.3	424	574.5	433	612.0	442	652.9	451	692.2		

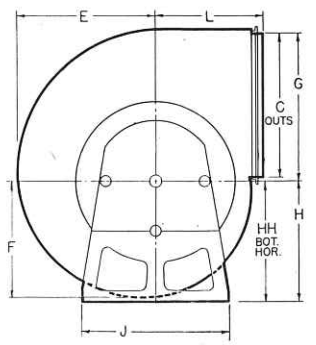
Capacities and static pressure at 70° F. and 29.92″ barometer. Class I Ratings—Black on White. Class II Ratings—Black on Blue.

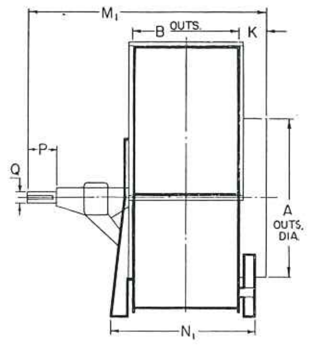
Dimensions "Buffalo" Type "BL" Fans

Single Inlet, Arrangements 2 & 4

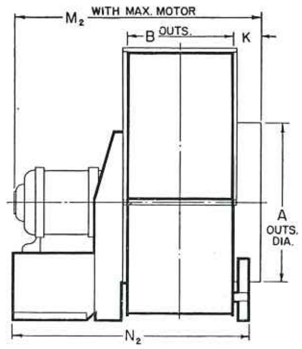
Sizes 245 to 540

Housings are adjustable.





ARR. 2



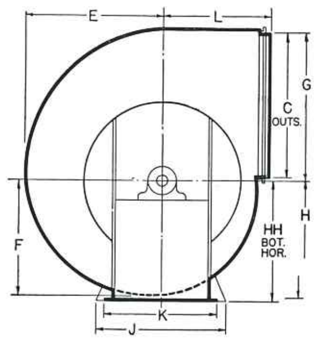
ARR. 4

Dimensions not for Construction

Fan Size	Wheel Diam.	A	B	C	E	F	G	H	HH	J	K	L
245	12¼	16¼	9⅝	13⅜	12⅝	10⅝	13⅜	13½	16½	15	3½	10⅞
270	13½	17½	10⅝	14¾	13⅞	11⅝	14¾	15	18	18	3½	11¾
300	15	19⅝	11¾	16⅜	15¼	12¾	16⅜	16½	19½	19	3½	12⅝
330	16½	21⅛	13	18	16¾	14	18	18	22	22	3½	13¾
365	18¼	23⅛	14¼	19⅞	18⅜	15⅜	19⅞	20	24	24	4¼	14⅞
400	20	24⅞	15⅝	21¾	20⅛	16⅞	21¾	21¾	25¾	26	4¼	16⅛
445	22¼	27¼	17⅜	24⅛	22¼	18⅝	24¼	24	28	28	4¼	17⅝
490	24½	29⅝	19⅛	26⅝	24½	20½	26⅝	26¼	30¼	30	5	19⅛
540	27	32½	21⅛	29¼	27	22½	29⅜	29	33	32	5	20¾

Fan Size	Wheel Diam.	M_1	N_1	P	Q	Keyway	CLASS I			CLASS II		
							M_2	N_2	Max. NEMA Motor Frame	M_2	N_2	Max. NEMA Motor Frame
245	12¼	24¾	14¼	3¼	¹⁵⁄₁₆	¼x⅛	30¾	26½	225	30¾	26½	225
270	13½	25¾	15¼	3⅞	¹⁵⁄₁₆	¼x⅛	31¼	27	225	31½	27	225
300	15	27	16¼	3⅞	¹⁵⁄₁₆	¼x⅛	32½	28¼	225	34¾	30¾	254
330	16½	31	17½	4⅝	1³⁄₁₆	¼x⅛	33¼	29½	225	33¼	29½	224
365	18¼	32¾	19¾	4½	1³⁄₁₆	¼x⅛	37½	33	254	37½	33	225
400	20	34¼	21¼	4⅜	1³⁄₁₆	¼x⅛	38½	34¼	254	38½	34¼	254
445	22¼	37½	23	4⅝	1⁷⁄₁₆	⅜x³⁄₁₆	45¼	40¼	324	45¼	40¼	284
490	24½	40¼	25¾	4¼	1¹¹⁄₁₆	⅜x³⁄₁₆	48½	43¼	326	48½	43¼	326
540	27	42	27¾	4½	1¹¹⁄₁₆	⅜x³⁄₁₆	50	46	326	51½	46½	364

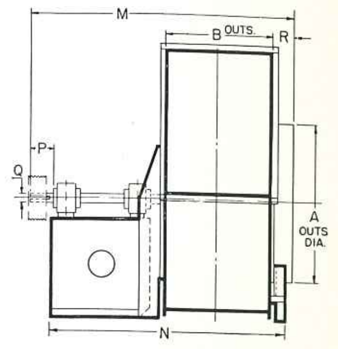
Dimensions "Buffalo" Type "BL" Fans



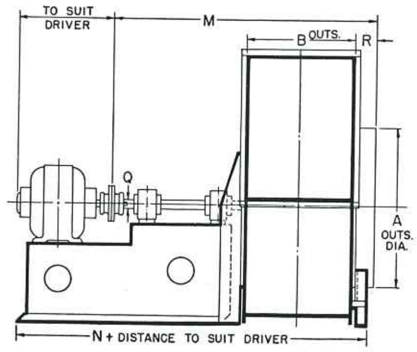
Single Inlet

Arrangements

1, 8 & 9



ARR. 1

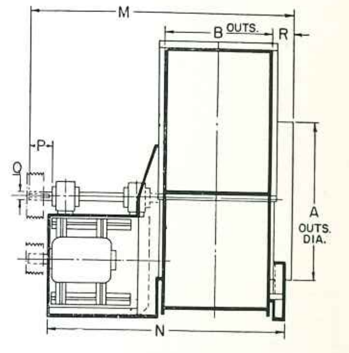


ARR. 8

Sizes 245 to 540

Housings are adjustable.

Dimensions
not for Construction.



ARR. 9

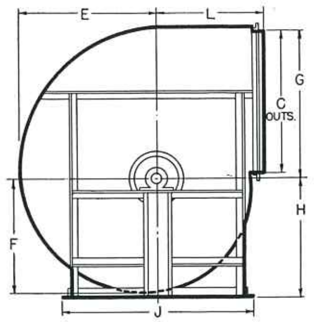
Fan Size	Wheel Diam.	Maximum NEMA Motor Frame Arr. 9		A	B	C	E	F	G	H	HH	J
		CLASS I	CLASS II									
245	12¼	77	254	16¼	9⅝	13⅜	12⅝	10⅝	13⅜	13½	16½	15
270	13½	204	284	17½	10⅝	14¾	13⅞	11⅝	14¾	15	18	18
300	15	204	284	19⅝	11¾	16⅜	15¼	12¾	16⅜	16½	19½	19
330	16½	225	324	21⅛	13	18	16¾	14	18	18	22	22
365	18¼	225	324	23⅛	14¼	19⅞	18⅜	15⅜	19⅞	20	24	24
400	20	254	326	24⅞	15⅝	21¾	20⅛	16⅞	21¾	21¾	25¾	26
445	22¼	284	326	27¼	17⅜	24⅛	22¼	18⅝	24¼	24	28	28
490	24½	324	364	29⅝	19⅛	26⅝	24½	20½	26⅝	26¼	30¼	30
540	27	324	364	32½	21⅛	29¼	27	22½	29⅜	29	33	32

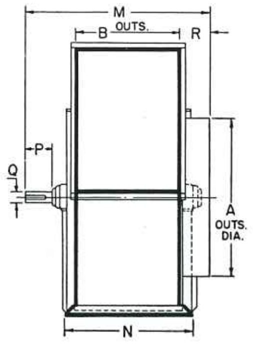
Fan Size	Wheel Diam.	K	L	N	CLASS I				CLASS II				R
					M	P	Q	Keyway	M	P	Q	Keyway	
245	12¼	15	10⅞	32	38¾	3⅜	1⁷⁄₁₆	⅜x³⁄₁₆	38½	3½	1¹¹⁄₁₆	⅜x³⁄₁₆	3½
270	13½	16	11¾	32½	39¼	3⅜	1⁷⁄₁₆	⅜x³⁄₁₆	39½	4	1¹¹⁄₁₆	⅜x³⁄₁₆	3½
300	15	17¼	12⅝	34	41¼	3¾	1⁷⁄₁₆	⅜x³⁄₁₆	41¼	4¼	1¹⁵⁄₁₆	½x¼	3½
330	16½	18	13¾	38	46½	4¼	1¹¹⁄₁₆	⅜x³⁄₁₆	43	4⅛	1¹⁵⁄₁₆	½x¼	3½
365	18¼	18	14⅞	40	48½	3⅞	1¹¹⁄₁₆	⅜x³⁄₁₆	50	4⅛	2³⁄₁₆	½x¼	4¼
400	20	20	16⅛	45½	55¼	4⅛	1¹⁵⁄₁₆	½x¼	51½	4⅜	2⁷⁄₁₆	⅝x⁵⁄₁₆	4¼
445	22¼	22½	17⅝	47	57	4⅛	1¹⁵⁄₁₆	½x¼	53¼	4⅜	2⁷⁄₁₆	⅝x⁵⁄₁₆	4¼
490	24½	22½	19⅛	49½	59½	4⅜	1¹⁵⁄₁₆	½x¼	56¾	5¼	2⁷⁄₁₆	⅝x⁵⁄₁₆	5
540	27	25	20¾	51	61	5⅛	1¹⁵⁄₁₆	½x¼	58½	5¼	2⁷⁄₁₆	⅝x⁵⁄₁₆	5

Dimensions "Buffalo" Type "BL" Fans

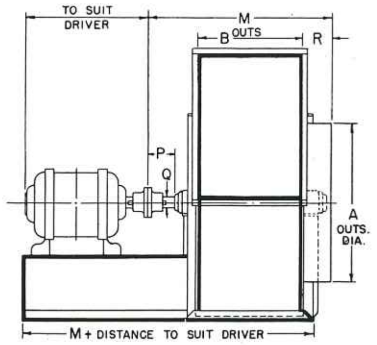
Single Inlet, Arrangements 3 & 7

Sizes 600 to 2175





ARR. 3



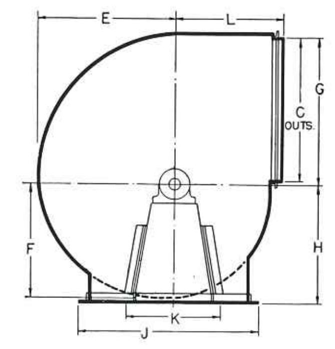
ARR. 7

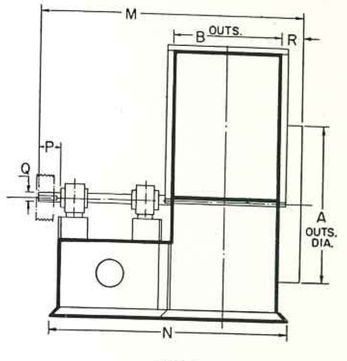
Dimensions not for Construction.

Fan Size	Wheel Diam.	A	B	C	E	F	G	H			
								BH	DB	TH	UB
600	30	35 5/8	23 3/8	32 1/2	29 7/8	25	32 5/8	35	22 3/4	25 1/2	30 1/2
660	33	38 5/8	25 3/4	35 3/4	32 3/4	27 3/8	35 7/8	38	24 3/4	28	33 1/2
730	36 1/2	42 1/8	28 3/8	39 1/2	36 1/8	30 1/8	39 5/8	42	27 1/4	30 1/2	36 1/2
805	40 1/4	45 3/4	31 1/4	43 1/2	39 7/8	33 1/4	43 3/4	46 1/2	30 1/4	33 1/2	40 1/2
890	44 1/2	51	34 5/8	48 1/8	44	36 5/8	48 1/4	51	33	37	44 1/2
980	49	55 3/8	38	53	48 3/8	40 1/4	53 1/4	56	36	41	49
1085	54 1/4	60 5/8	42 1/8	58 5/8	53 3/8	44 1/2	58 7/8	62	40 1/4	45	54
1200	60	67 1/4	46 1/2	64 3/4	58 1/2	48 5/8	65 1/8	68 1/2	47 3/4	50	60
1320	66	73 1/4	51 1/8	71 1/4	64 3/8	53 3/8	71 5/8	75	52 1/4	54 1/2	65 1/2
1460	73	80 1/4	56 1/2	78 3/4	71 1/8	59 1/8	79 1/8	82 1/2	57 1/2	60 1/2	72 1/2
1615	80 3/4	90 1/4	62 1/2	87 1/8	78 5/8	65 3/8	87 1/2	91	63 1/2	66 1/2	80
1780	89	98 1/2	68 7/8	96	86 3/4	72 1/8	96 1/2	100	69 1/2	73 1/2	88
1965	98 1/4	107 1/2	76	106	95 3/4	79 5/8	106 1/2	110	76 1/2	81	97
2175	108 3/4	118	84 1/8	117 1/4	106	88 1/8	117 7/8	122	84 1/2	89 1/2	107

Fan Size	Wheel Diam.	J	L	N	CLASS I				CLASS II				R
					M	P	Q	Keyway	M	P	Q	Keyway	
600	30	46	24 1/4	28 1/2	40 1/4	4 5/8	1 11/16	3/8x3/16	39 1/4	5	1 11/16	3/8x3/16	5
660	33	49	26 1/4	30 3/4	43	5	1 11/16	3/8x3/16	44 1/4	6 1/4	2 3/16	1/2x1/4	5
730	36 1/2	52 1/2	28 3/4	33 1/2	46 1/2	4 7/8	1 15/16	1/2x1/4	47 1/4	6 1/4	2 3/16	1/2x1/4	5 1/2
805	40 1/4	56 1/2	32 1/4	36 1/2	50 3/4	6 1/4	1 15/16	1/2x1/4	52 1/2	8	2 7/16	5/8x5/16	5 1/2
890	44 1/2	61	35	39 3/4	55	6 1/4	2 3/16	1/2x1/4	56 1/2	8	2 11/16	5/8x5/16	5 1/2
980	49	65	38	43 1/4	58 1/2	6 1/4	2 3/16	1/2x1/4	61 1/4	9 1/2	2 15/16	3/4x3/8	5 1/2
1085	54 1/4	71 1/2	42 1/4	48 1/2	65 1/2	8	2 11/16	5/8x5/16	66 3/4	9 1/2	3 7/16	7/8x7/16	5 1/2
1200	60	79	50 1/4	52 1/2	71	8	2 11/16	5/8x5/16	73	10	3 7/16	7/8x7/16	7
1320	66	88	54 3/4	57 1/4	78 1/4	10 1/2	2 15/16	3/4x3/8	78 3/4	10 5/8	3 15/16	1 x1/2	7
1460	73	95	60	62 1/2	84 3/4	10 1/2	3 3/16	3/4x3/8	87	10 5/8	4 3/16	1 x1/2	8
1615	80 3/4	104	66	68 1/2	93 3/4	11 1/4	3 15/16	1 x1/2	——	——	——	——	9
1780	89	115	72	77	101 1/4	12 1/4	3 15/16	1 x1/2	——	——	——	——	9
1965	98 1/4	124	79	84	117 3/4	15 1/2	4 15/16	1 1/4x5/8	——	——	——	——	12
2175	108 3/4	135	87	92 1/4	126 3/4	15 1/2	5 7/16	1 1/4x5/8	——	——	——	——	12

Dimensions "Buffalo" Type "BL" Fans

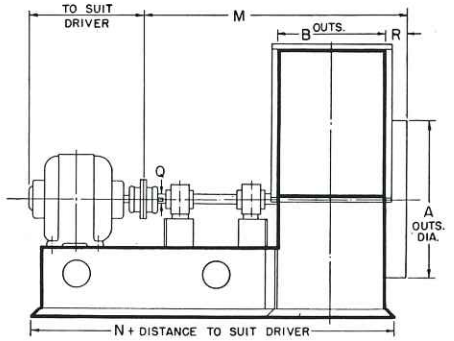




ARR. 1

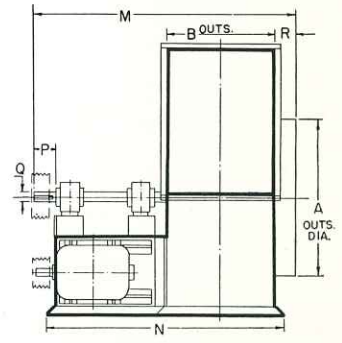
Single Inlet, Arrangements 1, 8 & 9

Sizes 600 to 1460



ARR. 8

Dimensions not for Construction.



ARR. 9

Fan Size	Wheel Diam.	Maximum NEMA Motor Frame Arr. 9		A	B	C	E	F	G	H				J
		CLASS I	CLASS II							BH	DB	TH	UB	
600	30	326	404	35 5/8	23 3/8	32 1/2	29 7/8	25	32 5/8	35	22 3/4	25 1/2	30 1/2	46
660	33	326	405	38 5/8	25 3/4	35 3/4	32 3/4	27 3/8	35 7/8	38	24 3/4	28	33 1/2	49
730	36 1/2	364	405	42 1/8	28 3/8	39 1/2	36 1/8	30 1/8	39 5/8	42	27 1/4	30 1/2	36 1/2	52 1/2
805	40 1/4	365	444	45 3/4	31 1/4	43 1/2	39 7/8	33 1/4	43 3/4	46 1/2	30 1/4	33 1/2	40 1/2	56 1/2
890	44 1/2	404	445	51	34 5/8	48 1/8	44	36 5/8	48 1/4	51	33	37	44 1/2	61
980	49	405	504	55 3/8	38	53	48 3/8	40 1/4	53 1/4	56	36	41	49	65
1085	54 1/4	405	6325	60 5/8	42 1/8	58 5/8	53 3/8	44 1/2	58 7/8	62	40 1/4	45	54	71 1/2
1200	60	444	6326	67 1/4	46 1/2	64 3/4	58 1/2	48 5/8	65 1/8	68 1/2	47 3/4	50	60	79
1320	66	445	6326	73 1/4	51 1/8	71 1/4	64 3/8	53 3/8	71 5/8	75	52 1/4	54 1/2	65 1/2	88
1460	73	504	6326	80 1/4	56 1/2	78 3/4	71 1/8	59 1/8	79 1/8	82 1/2	57 1/2	60 1/2	72 1/2	95

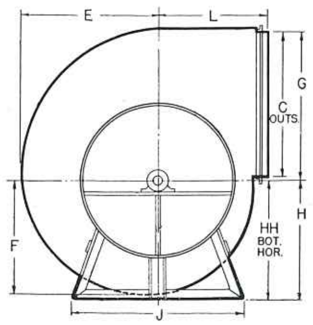
Fan Size	Wheel Diam.	K			L	N	CLASS I				CLASS II				R
		DB TH	BH	UB			M	P	Q	Keyway	M	P	Q	Keyway	
600	30	25	29 1/4	27 1/4	24 1/4	55 1/2	63 1/4	5 5/8	2 3/16	1/2x1/4	59 3/4	5 3/4	2 11/16	5/8x5/16	3 1/2
660	33	25 3/4	30 1/2	28 1/2	26 1/4	57 7/8	65 5/8	5 5/8	2 7/16	5/8x5/16	63	6 1/2	2 11/16	5/8x5/16	3 1/2
730	36 1/2	27 1/4	32 1/2	30	28 3/4	60 1/2	68 1/4	5 5/8	2 7/16	5/8x5/16	65 1/2	6 1/2	2 11/16	5/8x5/16	3 1/2
805	40 1/4	29 3/4	35 3/4	32 3/4	32 1/4	66 7/8	76 1/8	6 5/8	2 11/16	5/8x5/16	71 1/2	8 1/4	2 15/16	3/4x3/8	3 1/2
890	44 1/2	30 3/4	37 1/4	34 3/4	35	70 3/8	79 5/8	6 5/8	2 11/16	5/8x5/16	76 1/2	9 3/4	2 15/16	3/4x3/8	3 1/2
980	49	32 3/4	39 1/2	36 3/4	38	73 1/2	83 1/2	7 3/8	2 15/16	3/4x3/8	81 1/4	8 1/2	3 7/16	7/8x7/16	3 1/2
1085	54 1/4	36 1/4	40	40 3/4	42 1/4	82 1/8	90 7/8	8 1/4	3 7/16	7/8x7/16	90	10	3 15/16	1 x1/2	3 1/2
1200	60	39	40	43	50 1/4	86 3/8	98	9 3/4	3 7/16	7/8x7/16	97	11 1/4	4 3/16	1 x1/2	4 1/2
1320	66	40	40	40	54 3/4	96 5/8	112 1/2	10 1/2	3 15/16	1 x1/2	110	11 1/4	4 7/16	1 x1/2	4 1/2
1460	73	40	40	40	60	101 3/4	118 3/4	10 3/4	4 3/16	1 x1/2	117	12 1/2	4 15/16	1 1/4x5/8	4 1/2

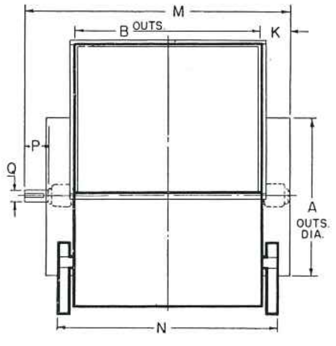
Dimensions "Buffalo" Type "BL" Fans

Double Inlet - - Arrangement 3

Sizes 365 to 540

Housings are adjustable.





ARR. 3

Dimensions not for Construction.

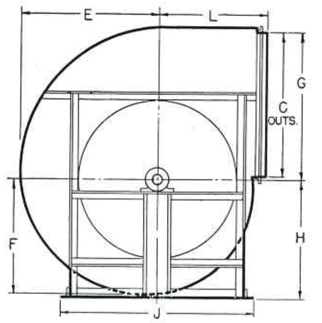
Fan Size	Wheel Diam.	A	B	C	E	F	G	H	HH	J	K
365	18¼	23⅛	25½	19⅞	18⅜	15⅜	19⅞	20	24	24	4¼
400	20	24⅞	28	21¾	20⅛	16⅞	21¾	21¾	25¾	26	4¼
445	22¼	27¼	31⅛	24⅛	22¼	18⅝	24¼	24	28	28	4¼
490	24½	29⅝	34¼	26⅝	24½	20½	26⅝	26¼	30¼	30	5
540	27	32½	37¾	29¼	27	22½	29⅜	29	33	32	5

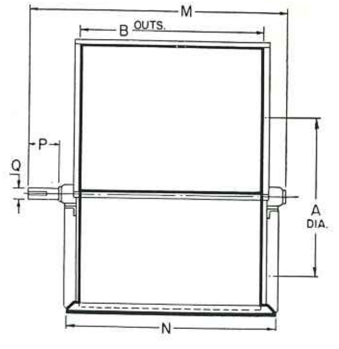
Fan Size	Wheel Diam.	L	N	CLASS I				CLASS II			
				M	P	Q	Keyway	M	P	Q	Keyway
365	18¼	14⅞	31	42¼	4¼	1 7/16	⅜x3/16	44½	4¾	1 11/16	⅜x3/16
400	20	16⅛	33¾	45	4½	1 7/16	⅜x3/16	46½	4¾	1 11/16	⅜x3/16
445	22¼	17⅝	36¾	49¾	5	1 11/16	⅜x3/16	50	5	1 11/16	⅜x3/16
490	24½	19⅛	41	52¾	5	1 11/16	⅜x3/16	54¾	6	1 11/16	⅜x3/16
540	27	20¾	44½	56	5	1 11/16	⅜x3/16	60	6	2 3/16	½x¼

Dimensions "Buffalo" Type "BL" Fans

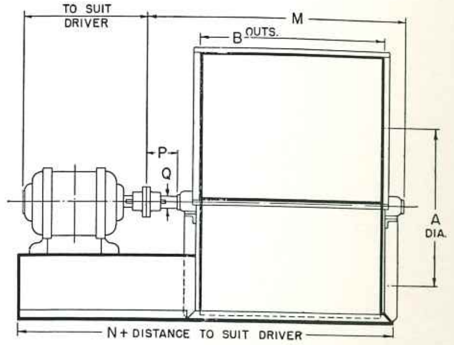
Double Inlet - - Arrangements 3 & 7

Sizes 600 to 2175





ARR. 3



ARR. 7

Dimensions not for Construction.

Fan Size	Wheel Diam.	A	B	C	E	F	G	H				J
								BH	DB	TH	UB	
600	30	35⅝	41⅞	32½	29⅞	25	32⅝	35	22¾	25½	30½	46
660	33	38⅝	46	35¾	32¼	26⅞	35⅞	38	24¾	28	33½	49
730	36½	42⅛	50⅞	39½	35⅝	29⅝	39⅝	42	27¼	30½	36½	52½
805	40¼	45¾	56	43½	39⅜	32¾	43¾	46½	30¼	33½	40½	56½
890	44½	51	62	48⅛	43⅜	36⅛	48¼	51	33	37	44½	61
980	49	55⅜	68¼	53	47¾	39¾	53¼	56	36	41	49	65
1085	54¼	60⅝	75½	58⅝	52⅞	44	58⅞	62	40¼	45	54	71½
1200	60	67¼	83½	64¾	58½	48⅝	65⅛	68½	47¾	50	60	79
1320	66	73¼	91⅞	71¼	64⅜	53⅜	71⅝	75	52¼	54½	65½	88
1460	73	80¼	101½	78¾	71⅛	59⅛	79⅛	82½	57½	60½	72½	95
1615	80¾	90¼	112¼	87⅛	78⅝	65⅜	87½	91	63½	66½	80	104
1780	89	98½	123¾	96	86¾	72⅛	96½	100	69½	73½	88	115
1965	98¼	107½	136½	106	95¾	79⅝	106½	110	76½	81	97	124
2175	108¾	118	151⅛	117¼	105⅞	88⅛	117⅞	122	84½	89½	107	135

Fan Size	Wheel Diam.	L	N	CLASS I				CLASS II			
				M	P	Q	Keyway	M	P	Q	Keyway
600	30	24¼	47	66	5	1 15/16	½x¼	64¼	7⅝	2 3/16	½x¼
660	33	26¼	51	72¾	6¼	2 3/16	½x¼	72¾	7¾	2 11/16	⅝x5/16
730	36½	28¾	56	77¼	6⅜	2 3/16	½x¼	76¾	7⅞	2 15/16	¾x⅜
805	40¼	32¼	61	84	8⅛	2 7/16	⅝x5/16	82	8	2 15/16	¾x⅜
890	44½	35	67	93	8	2 11/16	⅝x5/16	91½	9½	3 7/16	⅞x7/16
980	49	38	73¼	99¾	9⅜	2 15/16	¾x⅜	98¾	10½	3 7/16	⅞x7/16
1085	54¼	42¼	81½	105	10	3 7/16	⅞x7/16	110¾	10¾	4 3/16	1 x½
1200	60	50¼	89½	116	10	3 15/16	1 x½	118¾	10¾	4 7/16	1 x½
1320	66	54¾	98	129¾	12⅞	4 3/16	1 x½	—	—	—	—
1460	73	60	107½	142	12⅝	4 15/16	1¼x⅝	—	—	—	—
1615	80¾	66	118¼	155½	13	5 3/16	1¼x⅝	—	—	—	—
1780	89	72	131¾	170	16	5 7/16	1¼x⅝	—	—	—	—
1965	98¼	79	144½	185½	18⅝	5 7/16	1¼x⅝	—	—	—	—
2175	108¾	87	159¼	203½	18⅝	5 15/16	1½x¾	—	—	—	—

“Buffalo”

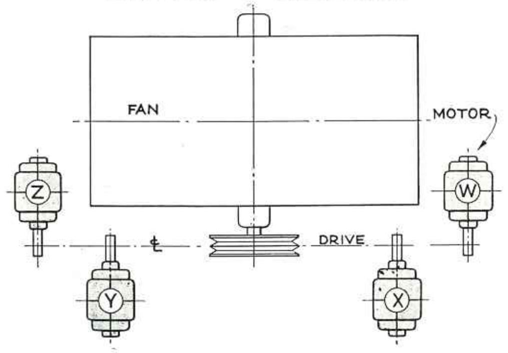
Minimum Belt Centers

Fan Sizes 245 - 540

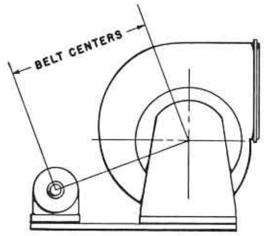
Arrangement 3 Single & Double Inlet

Arrangement 2 Single Inlet

Motor Positions



Belt Center Measurement



Notes: 1. All belt centers based on using standard motor slide rail.
2. Depending on base arrangement and fan rotation, W and Z centers may be further reduced if required.

COMPARISON OF OLD AND NEW NEMA FRAME NUMBERS
Polyphase Motors—Design A and B—Open Type
Note: New and Old Frame sizes are interchangeable in tables below.

HP	3600 RPM		1800 RPM		1200 RPM		900 RPM		720 RPM		600 RPM	
	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
½							204	182				
¾					203	182	224	184				
1			203	182	204	184	225	213	254	213	254	215
1½	203	182	204	184	224	184	254	213	254	215	284	254U
2	204	184	224	184	225	213	254	215	284	254U	324	256U
3	224	184	225	213	254	215	284	254U	324	256U	326	286U
5	225	213	254	215	284	254U	324	256U	326	286U	364	324U
7½	254	215	284	254U	324	256U	326	284U	364	324U	365	326U
10	284	254U	324	256U	326	284U	364	286U	365	326U		
15	324	256U	326	284U	364	324U	365	326U				
20	326	284U	364	286U	365	326U						
25	364S	286U	364	324U								
30	364S	324S	365	326U								
40	365S	326S										

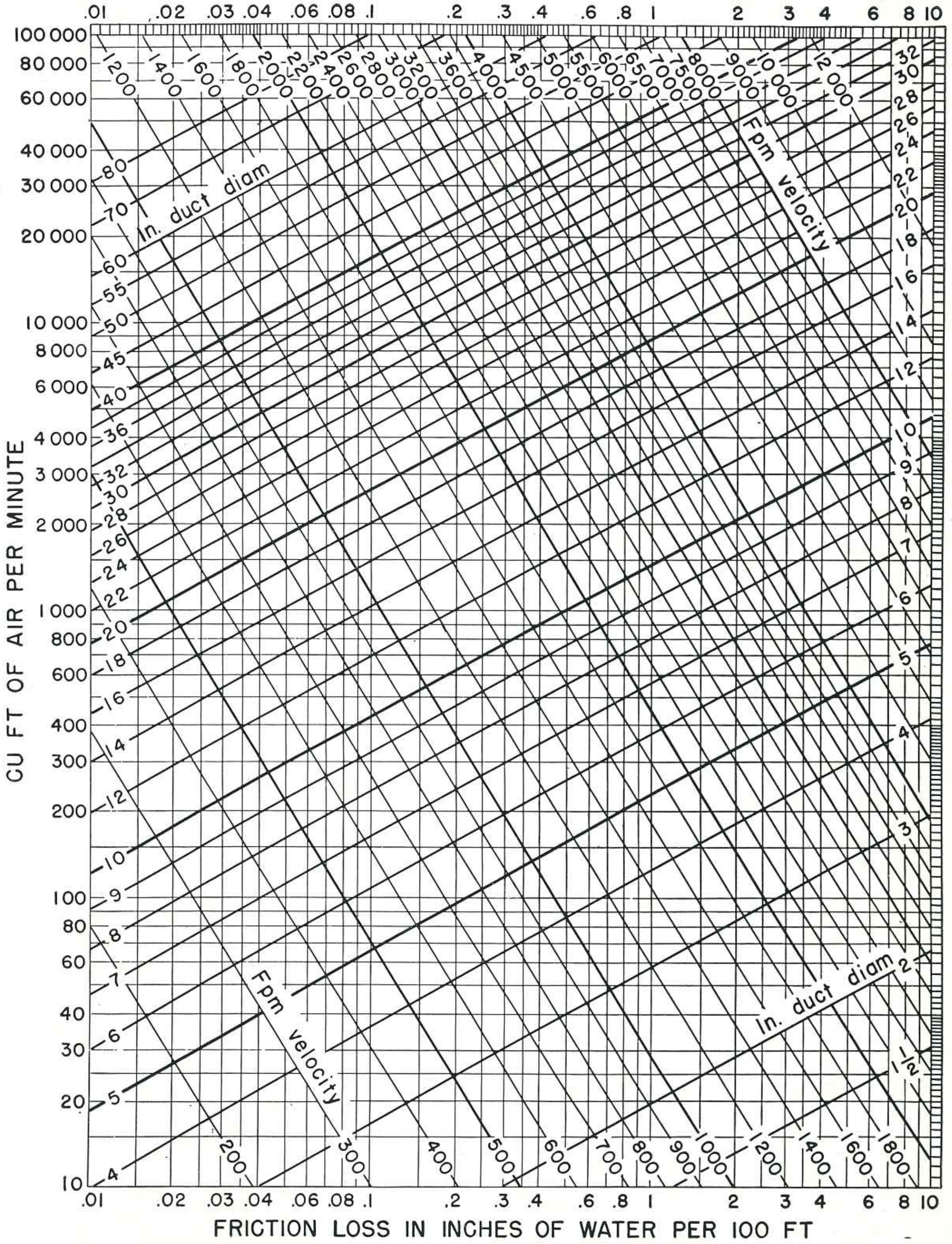
MOTOR SHAFT AND KEY DIMENSIONS FOR OLD AND NEW FRAMES

OLD FRAMES			NEW FRAMES		
Frame No.	Shaft Diam.	Key	Frame No.	Shaft Diam.	Key
203	¾	3/16	182	⅞	3/16
204	¾	3/16	184	⅞	3/16
224	1	¼	213	1⅛	¼
225	1	¼	215	1⅛	¼
254	1⅛	¼	254U	1⅜	5/16
284	1¼	¼	256U	1⅜	5/16
324	1⅝	⅜	284U	1⅝	⅜
326	1⅝	⅜	286U	1⅝	⅜
364	1⅞	½	324U	1⅞	½
364S	1⅝	⅜	324S	1⅝	⅜
365	1⅞	½	326U	1⅞	½
365S	1⅝	⅜	326S	1⅝	⅜

FAN SIZE	Bottom Horizontal Disch.						Top Horizontal Discharge						Down and Up-Blast Disch.					
	NEMA Motor Frames																	
	203-204		224-225		254		203-204		224-225		254		203-204		224-225		254	
	Motor Position																	
	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z
245	11.3	23.7	10.9	24.2	10.0	25.0	8.9	22.7	8.5	23.2	7.8	24.2	8.9	23.4	8.5	24.0	7.8	24.9
270	12.8	25.5	12.4	25.9	11.5	26.7	10.2	24.3	9.8	24.9	9.0	25.8	10.2	25.2	9.8	25.7	9.0	26.6
300	14.1	27.4	13.7	27.9	12.8	28.5	11.5	26.3	11.0	26.7	10.2	27.5	11.5	27.2	11.0	27.7	10.2	28.6
330	16.8	30.0	16.4	30.3	15.5	31.0	13.2	28.1	12.8	28.5	12.0	29.5	13.2	29.3	12.8	29.8	13.2	30.6
365	18.6	31.7	18.2	32.1	17.3	32.7	15.0	29.7	14.5	30.2	13.7	31.0	15.0	31.7	14.5	32.2	13.7	33.0
400	20.7	34.8	20.2	35.1	19.3	35.7	17.1	32.8	16.7	33.2	15.8	33.9	17.1	34.2	16.7	34.7	15.8	35.5
445	23.4	37.8	22.9	38.1	22.0	38.6	19.8	35.7	19.4	36.1	18.5	36.8	19.8	36.5	19.4	37.0	18.5	37.7
490	25.4	40.5	25.0	40.6	24.1	41.3	22.0	38.2	21.5	38.7	20.7	39.4	22.0	40.1	21.5	40.5	20.7	41.3
540	29.5	44.5	29.0	44.9	28.2	45.3	26.0	42.2	25.6	42.7	24.7	43.4	26.0	44.3	25.6	44.7	24.7	45.4

FAN SIZE	Fan Dis-charge	NEMA Motor Frames															
		224-225		254		284		324-326		364-365		404-405		444-445		504-505	
		Motor Position															
		X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z	X-Y	W-Z
600	TH	21.9	44.2	21.0	44.9	20.4	45.5	19.2	46.5		48.9		50.2				
	BH	30.2	48.9	29.3	49.3	28.6	49.8	27.3	50.3		52.4		53.3				
	DB	19.6	45.0	18.8	46.0	18.3	46.7	17.1	47.6		50.5		51.5				
	UB	26.2	48.5	25.3	49.0	24.6	49.6	23.3	50.0		52.1		53.5				
660	TH	25.0	47.9	24.2	48.5	23.7	49.3	22.4	50.1		51.7		53.2				
	BH	33.8	53.1	32.9	53.5	32.3	53.9	30.8	54.5		55.7		56.8				
	DB	22.3	48.9	21.6	49.6	21.1	50.4	20.0	51.4		53.9		55.2				
	UB	29.7	52.6	28.9	53.3	28.3	53.7	27.0	54.4		56.6		57.9				
730	TH	28.3	51.9	27.4	52.5	26.8	52.0	25.6	53.8		56.2		57.2				
	BH	38.3	57.9	37.3	58.3	36.9	58.6	35.3	59.0		61.2		61.7				
	DB	25.6	53.4	24.8	54.1	24.3	54.8	23.0	55.6		58.2		59.4				
	UB	33.3	57.4	32.4	57.9	31.8	58.6	31.3	59.6		61.4		62.2				
805	TH	32.9	56.5	32.1	56.9	31.5	57.5	30.3	58.7	29.6	60.7	28.5	61.8				
	BH	44.0	63.5	43.1	63.8	42.5	64.5	41.0	64.9	40.1	66.7	39.0	67.2				
	DB	30.3	58.3	29.7	58.9	29.0	59.6	27.7	60.5	27.2	63.1	26.3	64.1				
	UB	38.6	63.0	37.8	63.5	37.2	64.0	36.8	65.1	35.1	66.8	33.9	67.6				
890	TH	37.0	61.8	36.2	62.5	35.6	63.1	34.4	63.7	33.7	65.8	32.6	67.3				
	BH	49.0	69.7	48.1	70.0	47.5	70.5	46.1	70.7	45.2	72.3	44.0	73.1				
	DB	33.9	63.5	33.1	64.2	32.6	65.0	31.2	65.6	30.8	68.1	29.7	69.2				
	UB	43.2	68.8	42.4	69.4	41.7	70.0	41.3	71.0	39.6	72.5	38.4	73.1				
980	TH			41.2	68.1	40.6	68.9	39.5	69.6	38.7	72.1	37.5	72.6	36.8	73.2		
	BH			54.0	75.8	53.2	77.0	52.0	77.3	51.2	79.3	49.7	79.6	48.8	80.0		
	DB			37.4	70.0	36.8	70.5	35.5	71.3	35.0	73.7	33.9	74.9	33.3	75.7		
	UB			47.8	76.1	47.2	76.5	46.7	77.7	45.0	79.0	43.9	80.0	43.0	83.5		
1085	TH			46.4	74.6	45.6	75.8	44.6	76.1	43.7	78.2	42.7	78.8	42.0	80.2		
	BH			60.8	84.4	60.0	84.6	58.8	84.9	57.9	86.9	56.5	87.0	55.7	87.7		
	DB			42.7	76.5	42.0	77.4	40.7	77.8	40.3	80.5	39.3	81.4	38.6	82.3		
	UB			53.7	83.4	53.0	83.8	52.8	84.8	51.0	86.4	49.9	86.9	48.8	87.5		
1200	TH			52.3	82.3	51.8	82.9	50.5	83.4	49.8	85.8	48.6	86.3	47.7	87.0		
	BH			68.0	93.3	67.4	93.4	66.0	93.6	65.1	95.6	63.9	95.9	63.0	96.2		
	DB			50.5	85.5	49.8	86.4	48.7	86.9	48.0	89.2	46.9	90.1	46.1	90.8		
	UB			60.6	92.0	60.0	92.4	59.5	93.4	57.8	94.6	56.7	95.5	55.8	96.2		
1320	TH			57.9	89.2	57.4	89.3	56.1	90.4	55.3	92.4	54.1	93.3	53.4	93.9		
	BH			75.4	101.4	74.5	101.7	73.2	102.0	72.5	103.4	71.1	104.0	70.3	104.5		
	DB			56.1	93.4	55.6	94.0	54.1	94.5	53.6	96.9	52.4	97.8	51.7	98.4		
	UB			67.0	100.5	66.4	100.6	66.0	101.6	64.4	103.3	62.9	103.7	62.1	104.3		
1460	TH					64.5	98.8	63.3	99.5	62.4	101.3	61.1	102.3	60.5	102.8	58.9	103.6
	BH					83.0	111.8	81.7	112.1	80.9	113.5	79.5	114.2	78.8	114.4	77.0	114.8
	DB					62.0	103.2	60.9	103.8	60.0	106.0	59.0	106.8	58.1	107.7	56.8	108.5
	UB					74.4	111.1	73.1	111.4	72.1	113.3	71.0	112.5	70.2	111.1	68.5	115.0
1615	TH					71.7	108.4	70.6	109.0	69.8	111.0	68.5	111.6	67.9	112.3	66.2	113.0
	BH					92.5	123.2	91.4	123.5	90.4	125.0	89.0	125.3	88.0	125.6	86.5	125.9
	DB					69.3	113.5	68.1	114.1	67.5	116.3	66.4	117.0	65.5	117.7	64.0	118.5
	UB					82.7	122.4	81.6	122.6	80.9	124.4	79.5	123.7	78.6	125.5	77.1	126.0
1780	TH					80.0	118.9	78.9	119.8	78.0	121.4	76.8	122.0	76.1	122.7	74.5	124.0
	BH					102.6	135.2	101.3	135.3	100.4	136.9	99.1	137.1	98.2	137.5	96.5	138.3
	DB					76.9	124.3	75.8	124.7	74.9	126.9	73.9	127.8	73.2	128.5	71.5	129.3
	UB					92.1	134.3	90.8	134.6	90.2	136.3	88.7	135.5	87.7	137.0	86.3	137.6
1965	TH					89.0	130.2	87.9	131.1	87.2	133.0	86.0	133.6	85.1	134.2	83.5	134.7
	BH					113.8	148.6	112.6	148.7	111.7	150.2	110.3	150.4	109.8	150.7	107.9	150.9
	DB					85.5	136.4	84.4	136.9	83.6	139.0	82.3	139.8	81.6	138.6	80.0	141.2
	UB					102.5	147.8	101.2	147.9	100.4	149.7	99.4	148.8	98.3	150.6	96.7	151.1
2175	TH					99.6	143.6	98.5	144.0	97.5	146.0	96.5	146.5	95.8	147.1	93.9	147.8
	BH					127.2	146.1	126.0	146.2	125.2	165.5	123.8	165.6	122.9	166.1	121.3	166.4
	DB					95.8	150.0	94.5	150.8	93.8	152.8	92.6	153.4	91.8	154.1	90.1	154.9
	UB					114.2	162.7	112.9	162.8	112.2	164.1	110.8	163.7	109.9	165.5	108.6	166.0

A. S. H. V. E.
Friction
Chart*



This chart applies to smooth, round galvanized iron ducts. See table below for corrections to apply when using other pipe.

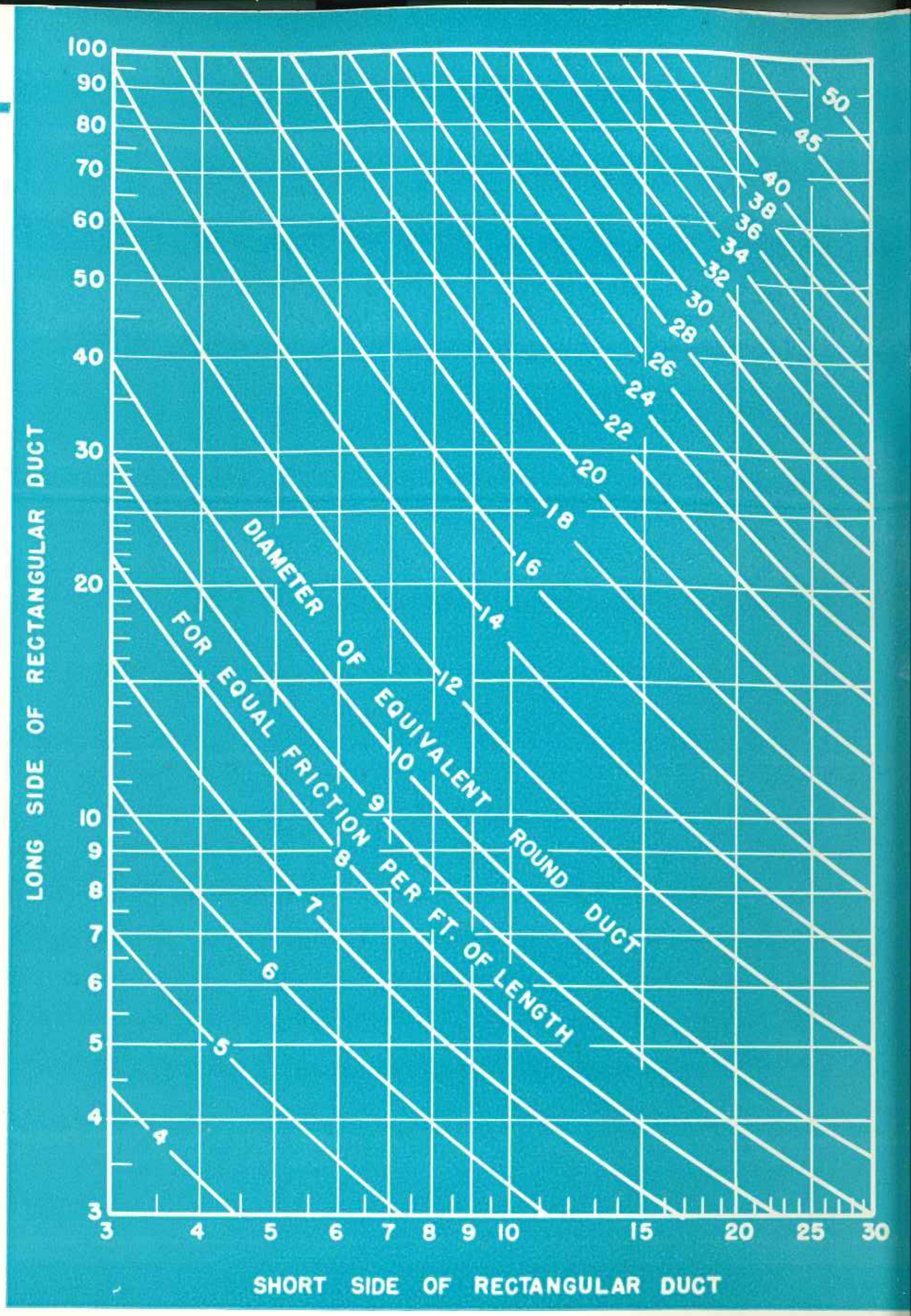
Type of Pipe	Degree of Roughness	Velocity ft./min.	Roughness Factor (Use as multiplier)
concrete	med. rough	1000-2000	1.4
riveted steel	very rough	1000-2000	1.9
tubing	very smooth	1000-2000	.9

EXAMPLE: Find friction loss 10,000 cubic feet per minute (C.F.M.) thru 100 feet of 24 inch diameter pipe. Select 10,000 C.F.M. on left scale and move horizontally right to diagonal line marked 24 inch. The other intersecting diagonal shows velocity in the pipe is 3200 feet per minute. Vertically below we find the friction per 100 feet is 0.50 inches.

*From Chapter 41, Heating, Ventilating and Air Conditioning Guide 1948. Used by permission.

Rectangular to Round Ducts

THE equivalent diameter of round duct to carry the same capacity as a rectangular duct and have the same friction loss per foot of length can be determined from the chart (right). Conversely, if the round duct diameter is known, equivalent rectangular duct dimensions may be read as ordinate and abscissa from any point on the round duct diameter curve.



From Page 179 "Fan Engineering" Handbook 5th Edition.

For ducts larger than those shown on the chart, follow the simple procedure as outlined in the following example:

Required: Diameter of equivalent round duct for a rectangular duct measuring 400″ by 200″.

Procedure: 1. Divide both dimensions by a common factor to bring them within range of chart.

Long side: $\frac{400}{10} = 40$ Short side: $\frac{200}{10} = 20$

2. Enter chart with these values and obtain an equivalent diameter which is 30″ in this case.

3. Multiply the diameter obtained by the factor to obtain the desired diameter. 30″ x 10 = 300″.

Suggestions for Better Fan Operation and Performance

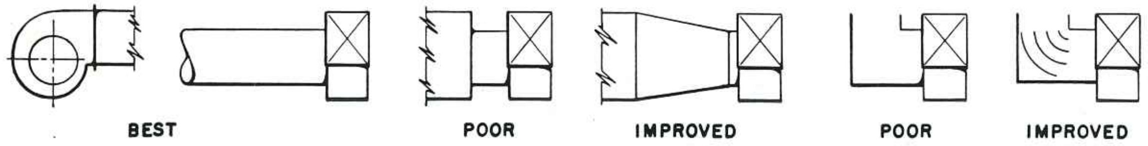
PROPER fan installation, obtaining the best possible inlet and outlet conditions, will pay dividends in fan performance.

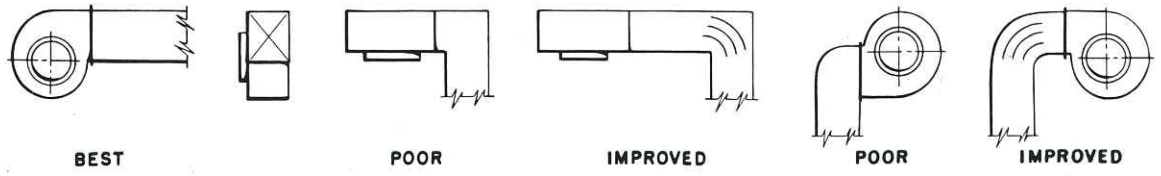
The ideal fan installation would have an open inlet or straight inlet duct and a straight discharge duct. Ideal conditions such as these are not always attained in actual installation.

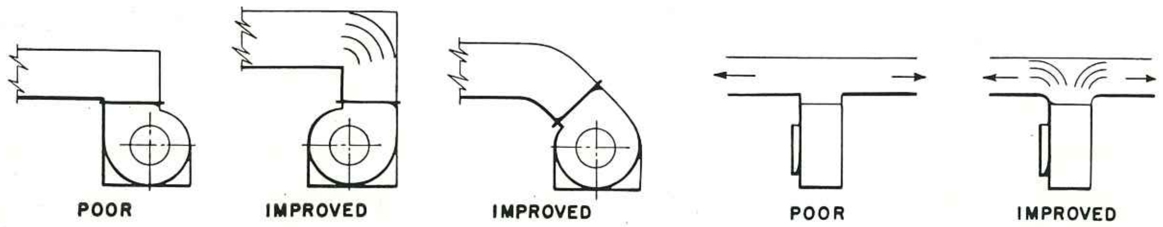
When ideal conditions must be modified, the best arrangement for proper air flow should be considered.

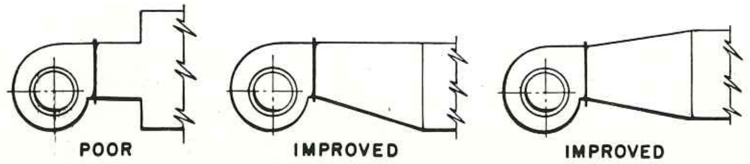
Elbows and changes in duct section are the common problems involved.

The use of an elbow at the fan inlet causes non-uniformity of flow and may affect the fan performance seriously. Some types of fans are more unstable than others, those with stationary inlet vanes being the least disturbed because of the directional effect of the vanes. Elbows located near the fan outlet can result in high pressure losses. Allow as much straight duct as possible between the fan and elbow; at least 1 or 2 duct diameters is preferred. Turning vanes will greatly improve elbow conditions at either fan inlet or outlet by maintaining a more uniform air velocity around the turn, thus reducing turbulence losses, and increasing fan performance.







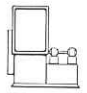
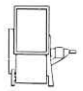
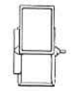
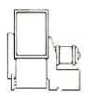
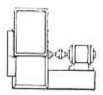
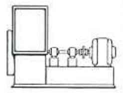
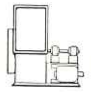
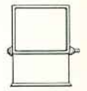
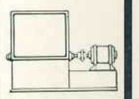


Abrupt changes in duct section should be avoided. In an abrupt contraction, the flow contracts due to the sharp edge and then expands again to fill the smaller duct with resulting loss. The shock loss in an abrupt enlargement is due to the widening jet of air into the larger duct. Gradual area changes offered by a cone transformation piece are preferred. The sketches on page 74 illustrate poor and improved duct connections.

Flexible connections should be used to connect ducts to fan inlet and outlet. Unpainted canvas, rubber or other flexible materials may be used. A fire resistant material should be used if a fire hazard exists. When fan is mounted on a floating base, flexible connections must be used.

Access doors in duct connections should be provided for maintenance of the inlet bearing on Arr. 3 fans and for inspection and maintenance of rotors.

Weight Chart

SIZE 20 Times Wheel Diam.	SINGLE INLET							DOUBLE INLET	
	 Arr. 1	 Arr. 2	 Arr. 3	 Arr. 4	 Arr. 7	 Arr. 8	 Arr. 9	 Arr. 3	 Arr. 7
245	210	140		170		270	220		
270	235	160		200		300	245		
300	270	210		240		340	285		
330	330	260		280		410	350		
365	425	300		340		490	445	385	
400	500	405		410		630	520	430	
445	580	460		500		740	600	545	
490	660	580		590		830	695	650	
540	820	620		685		1,020	855	788	
600	925		770		945	1,175	970	1,100	1,395
660	1,150		885		1,150	1,390	1,200	1,340	1,700
730	1,320		1,085		1,295	1,660	1,380	1,640	2,060
805	1,620		1,390		1,640	2,030	1,680	2,140	2,650
890	2,000		1,705		2,250	2,390	2,090	2,630	3,200
980	2,560		2,080		2,600	3,120	2,620	3,150	3,810
1085	3,125		2,580		3,240	3,990	3,250	4,260	5,070
1200	3,960		3,370		4,100	4,830	4,060	5,820	6,920
1320	4,900		4,070		5,200	6,100		6,870	7,940
1460	6,250		5,070		6,300	7,860		8,660	10,000
1615			6,340		8,600			11,000	12,650
1780			8,415		12,800			15,500	17,750
1960			11,500		14,900			19,500	21,800
2175			14,700		18,600			25,500	28,500

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